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PROVISIONAL INTELLIGENCE REPORT

THE 1954-55 FOOD SITUATION IN THE SINO-SOVIET BLOC

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CIA/RR PR-136
(ORR Project 21.450)

NOTICE

The data and conclusions contained in this report do not necessarily represent the final position of ORR and should be regarded as provisional only and subject to revision. Comments and data which may be available to the user are solicited.

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FOREWORD

This report describes the availability of food in the USSR, the European Satellites, and Communist China during the consumption year from 1 July 1954 through 30 June 1955. To provide comparative evaluations, availabilities of food during a prewar period and during the 1953-54 consumption year are also described.

The supply and consumption of food in each country are measured by the conventional "food balance," a statistical device which reflects directly the standard of living and indirectly the economic progress of a country. Properly prepared, the food balance is an accurate indication of the availability of food in different periods of time in a given country and in different countries at a given period of time.

The quantities of food available for human consumption in a country depend on production, net trade, changes in stocks, and nonfood uses --seed and waste, feed for livestock, and industrial utilization. In estimating the availability of certain grains and oilseeds, the extraction rates in processing also must be considered. Because of the many factors involved in deriving a food balance, and because of the lack of specific data concerning those factors, the food balance must be an approximation. It expresses the national average of food availability in terms of calories per capita per day, but it does not reflect the many disparities in levels of consumption among population groups. Moreover, only the major foodstuffs are considered in the food balance, and food "consumed" is measured in terms of food available to the producer at the source level and to the nonproducer at the wholesale level -- after retail sale the extent to which food is wasted, misused, or fed to animals by the nonproducers is unknown.

This report should be considered as a preliminary and tentative analysis of the 1954-55 food situation in the Sino-Soviet Bloc. In particular, the estimates of trade, changes in stocks, and, consequently, gross availability for use as food should be considered tentative. Lack of information makes impossible any direct appraisal of current consumption. It has been necessary, therefore, to use historical information on consumption, evaluated in the light of current conditions and Bloc policies, to derive an estimate of the quantities of food available during the 1954-55 consumption year.

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The data in this report do not represent measured or weighed quantities. They are, at best, estimates based on all available information and as such may have a range of error of at least plus or minus 5 percent.

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THE 1954-55 FOOD SITUATION IN THE SINO-SOVIET BLOC*

Summary

The availability of food in the countries of the Sino-Soviet Bloc during the consumption year from 1 July 1954 through 30 June 1955 was still below prewar levels. In terms of calories per capita per day, the availability of food for human consumption** during 1954-55 ranged from a low of 1,674 in Communist China to a high of 2,963 in Poland. The daily per capita caloric intake in the USSR was 2,642.

In the USSR, grains and potatoes contribute about 75 percent of the calories in the average Soviet diet. Although 1954 production of these foods increased slightly over 1953 levels, the indigenous supply was still below prewar levels, and Soviet authorities again had to draw about 2 million metric tons*** of grain from reserves. The 1954-55 availability of the so-called "quality" foods -- meat, fats, milk, fish, and sugar -- that provide less than 25 percent of the total calories increased about 4 percent above 1953-54 availability but was 2 percent below the level of 1938-39.

The pattern of the Soviet diet has remained about the same since prerevolution years. This pattern, more nearly Asiatic than European, is characterized by a high-carbohydrate diet of grains and potatoes and by some of the world's lowest consumption rates of protein and fatty foods. As a nation's economy becomes industrialized and its population becomes urbanized, the requirements for a better balanced diet, relatively high in the proportion of quality foods, tend to rise. The rapid industrialization of the USSR has not brought such an improvement in the quality of the diet. The deficiency has retarded labor productivity and has given rise to the recent emphasis on improving consumer welfare through greater production of agricultural commodities.

*** Tonnages throughout this report are given in metric tons.

^{*} The estimates and conclusions contained in this report represent the best judgment of ORR as of 15 November 1955.

^{**} The foods used in deriving food balances normally account for about 95 percent of the total calories in a national diet. Statistics used in this report have not been adjusted to 100 percent.

Some attempt has been made to improve the quality of the Soviet diet by imports of meat and other quality foods. The caloric value of these imports, however, may be largely offset by exports of grains. It is consistent with Soviet policy that the USSR continues to export grains and is at the same time forced to withdraw from reserves grains for domestic consumption. The Soviet export policy depends on political and economic considerations that usually circumvent restrictions arising from current production and utilization.

Since early 1954, Soviet leaders have launched two extensive programs designed to raise agricultural production: (1) expansion of grain acreages on "new lands" in which both soil and climatic conditions are marginal and (2) expansion of corn acreages in the Ukraine and in other areas of the USSR that are not well suited for the growing of corn. Natural limitations, particularly climate, appear to be such as to prevent the long-run success of either of these programs.

In the European Satellites as a whole, agricultural production in 1954 increased only 1 percent above that of 1953, once again failing to reach prewar levels, despite government policies directed toward increasing productivity under the "new course." In 1954, there was a serious decline in production of bread grains, particularly in Hungary, Czechoslovakia, and East Germany. Production of potatoes and sugar beets increased somewhat in the major growing areas, but the quality of these crops was affected by high moisture content. Actual production of sugar in 1954 in the European Satellites as a whole was lower than production in 1953. The supply of animal products has failed continually to satisfy increasing postwar demands, and there was no significant increase in production in 1954. To maintain consumption levels during 1954-55, the European Satellites probably have had to depend on imports to a greater extent than at any time since 1947.

The more highly industrialized northern European Satellites have had the greatest difficulty in meeting both quantitative and qualitative requirements for food. A decline in production of animal fats and vegetable oils has been felt especially by East Germany and Czechoslovakia. In an attempt to obtain more meat and dairy products, both countries have made trade overtures to Western countries. Not only has low production plagued the European Satellites but also the

problem of procuring foodstuffs from the farmers has been a pressing one during recent years. East Germany in particular has suffered during the 1954-55 consumption year. The government has been unable to procure adequate quantities of food from the producers and also has been unable to increase imports to make up for this loss. The shortages have created unrest among the workers and have contributed to lower labor productivity in East Germany.

During the next 2 or 3 years, improvement in the quality of the diet in the European Satellites will have to come from increased imports rather than from indigenous production. It is improbable, however, that the governments of the European Satellites will be willing to expend the amounts of foreign exchange that would be required to purchase the large quantities of animal products needed to effect a significant improvement in the diet of the average worker.

In Communist China, gross production of food in 1954-55 was about 4.5 percent below 1953-54 levels, and it was still at the general level of the 1931-37 average. From 1937 to 1954, however, population had increased by 22 percent. In 1954-55, then, the availability of food for human consumption, in terms of calories per capita per day, was about 20 percent below the prewar level.

Production of food in Communist China in 1954-55 was curtailed seriously by extensive floods in the rice-producing districts of the Yangtze and Huai Rivers. Winter production of crops, however, was greater than that of the previous year, and production of crops outside the flooded areas somewhat offset the losses caused by the floods.

In the prewar period, China was a net importer of food grains and a major exporter of vegetable oilseeds, largely soybeans. In the postwar years, China has reversed its position and has become a net exporter of food grains. Although Communist China has continued to be a major exporter of oilseeds, exports have not regained prewar levels after falling off during World War II. During 1954-55, Communist China continued to be a net exporter of food, total exports amounting to about 40 calories per capita per day, 2.4 percent of the national average diet.

Because the national diet in Communist China is relatively a very poor one, the export of food has aroused some resentment. The export of foodstuffs, however, is an important means of acquiring capital for the Chinese Communist industrialization program, and official propaganda has tried to minimize the importance of exports of food, especially of those to the USSR.

Little is known about the effect on food availabilities of the Chinese Communist efforts to stockpile grain. The government has indicated its intention to stockpile between 16 million and 20 million tons of grain by the end of 1957, but apparently there has been very little progress toward this goal.

Because efforts to increase production of food have been unsuccessful, the Chinese Communists have inaugurated a program of food transfer between surplus and deficit regions and have imposed rationing restricttions on a considerable segment of the population. Preharvest hunger has been common, however, and in some areas there has been actual famine.

I. Introduction.

Production of food in the USSR and the European Satellites occupies more than half of the labor force but provides the people with only a modest diet. To provide a diet still less adequate requires the efforts of more than 75 percent of the labor force of Communist China. In the US, only 16 percent of the labor force works in agriculture.

The failures of the countries of the Sino-Soviet Bloc to solve their food problems have given the question of food supply a central position in government policy. It is the purpose of this report to discuss such policies, and the programs that have resulted from them, only to the extent that such discussion will assist in analyzing the problems of food consumption in 1954-55 in the individual countries of the Sino-Soviet Bloc.

In analyzing these problems, use is made of "food balances," the conventional means of bringing together a large part of the agricultural data of a country, so that a detailed examination and appraisal of the food and agricultural situation can be accomplished. As far as possible, the same foods are specified in making up the balances for each country. The foods specified for the USSR and the European Satellites account for about 95 percent of the total calories consumed, and the percentage may be higher for Communist China.

The scope of this report is restricted to the examination and analysis of the available food supply of each of the countries of the Sino-Soviet Bloc with regard to domestic production, international trade, and stocks. It includes an examination of the patterns of consumption in the various countries in 1954-55 and draws comparisons with selected prewar periods and postwar years. Comparisons with prewar periods are not intended to suggest any judgment on either the adequacy or the desirability of the levels of food consumption, although levels of consumption in China, the USSR, and Southeastern Europe were generally considered inadequate in prewar days. These comparisons are used because they provide a convenient measure by which the agricultural developments in the Sino-Soviet Bloc may be appraised.

The calorie is used as an over-all indication of the average quantity of food consumed. It is a measure of energy value. Unfortunately, the calorie does not measure the quality of the diet; high caloric levels are, however, generally associated with high consumption of the more desirable foods -- those containing a relatively high proportion of animal proteins and fats.

II. USSR.

A. General.

Food balances of the major commodities produced for human consumption in the USSR in 1954 indicate the availability of a daily intake per capita of 2,642 calories.* This level of intake during the 1954-55 consumption year, although slightly higher** than that of 1953-54, is about 4 percent below the level of 1938-39.

^{*} The foods shown in the food balances (see Appendix A) represent about 95 percent of the total caloric intake, which probably is about 2,781 calories per capita per day.

** About 1 percent.

In recent years the pattern of food consumption in the USSR has been about the same as in 1938-39 and is more Asiatic than European in character. The average Soviet diet continues to have a preponderance of starchy foods such as grain products and potatoes, which account for about 75 percent of the total caloric intake.

Production of grain, the most important item in the average Soviet diet, was about 5 percent higher in 1954 than in 1953, primarily because of a good harvest in the "new lands" area of Siberia and Kazakhstan, which offset the results of drought in parts of the Ukraine and the Volga region. Despite the slight increase in production of grain, it is probable that the USSR again withdrew grain from reserves, as it did in 1953-54, in order to meet both export commitments and domestic requirements.

Among the so-called "quality" foods,* sugar showed the most significant decline in production in 1954. Soviet imports of sugar were increased significantly in order to supplement indigenous production. Imports of oilseeds were also increased somewhat over the levels of 1953-54.

Since the early spring of 1954 the USSR has launched two extensive programs designed to raise agricultural production:
(1) the expansion of grain acreage on "new lands" where both soil and climatic conditions are marginal and (2) the expansion of corn acreage in the Ukraine and in other areas of the USSR not well suited to production of corn.

In view of the investment of inputs in the "new lands" and the top-level backing which the whole program is receiving, it is unlikely that the project will be quickly abandoned or even seriously curtailed in the event of a serious crop failure. Preliminary studies indicate, however, that natural limitations, particularly climate, are such as to prevent that long-run achievement of success for the "new lands" program which is anticipated by Soviet leaders.

Because of climatic limitations and the lack of adequate inputs such as lime and fertilizers, the Soviet corn program, calling for a sevenfold increase in acreage by 1960, is unlikely

^{*} Meat, fats and oils, milk, fish, and sugar, for example.

to produce a significant increment of grain per hectare above that already being produced on the same land. In addition, labor input will be significantly greater for corn than for other grain or fodder crops.

B. Food Availabilities.

1. Production.

The 1954 crop season in the USSR was characterized by drought conditions in parts of the Ukraine and the Lower Volga region and exceptionally favorable weather in the "new lands" area of West Siberia and Kazakhstan. In 1954, production of grain and potatoes, the two most important foodstuffs in the Soviet diet, increased over the mediocre levels of 1953 by about 5 percent and 1 percent, respectively. Despite these slight increases, production of these foods in 1954 was still below the prewar levels by 2 percent and 10 percent, respectively. In the meantime, the population had increased 13 percent.

Of the remaining food items, sugar showed the most significant decline in indigenous production. Production of sugar in 1954 is estimated at about three-fourths of the 1953 tonnage and slightly above the level of 1938-39. An 11-percent increase was reported for production of vegetable oils in 1954 compared with production in 1953, an increase made possible, at least in part, by increased imports of oilseeds. Production of vegetable oils in 1954 exceeded production in 1938-39 by 61 percent. Production of meat in 1954-55, compared with production in 1938-39 and 1953-54, remained at approximately the same level. Production of fish in 1954-55 increased 14 percent over that of 1953-54, to reach a level about 75 percent higher than in 1938-39. The caloric intake from fish, however, still is less than 1 percent of the national total. Production of milk in 1954-55 showed an increase of about 3 percent over production in 1953 but is still only two-thirds of the level of 1938-39.

2. Trade.

Two significant aspects of the Soviet trade pattern in 1954-55 are continued, though diminished, exports of grains and increased imports of sugar. The net export of grains, accompanied

by a withdrawal from reserves, repeats the pattern of the 1953-54 trade year and emphasizes the fact that Soviet export policies are based on considerations other than the existence or absence of a true exportable surplus. The sharp increase in imports of sugar, chiefly from Western countries, was necessitated by the low level of production of sugar in the USSR in 1954.

In terms of calories, the food value of Soviet imports of agricultural products in 1954-55 was twice that of the exports. The net export of grain was equivalent to a daily intake of 69 calories per capita, and the net import of quality foods (sugar, meat, fats and oils, and fish) amounted to an intake of 136 calories per capita. In 1953-54 the per capita caloric contents of exports and imports were nearly equal. Imports amounted to 98 calories per capita per day, compared with 95 calories per day for exports. In 1938-39, there were no net imports, and exports amounted to 82 calories per capita per day.

3. Changes in Stocks.

As recently as February 1955, 1/* Khrushchev reaffirmed the official statement concerning the need for maintaining state reserves of grain. The current food-reserve program probably was inaugurated a few years after World War II. Since that time, there have been additions to the accumulating reserves of grain and other staples, and these additions possibly reached a peak following the favorable 1952 crop season. During the 1953-54 consumption year, however, the USSR had to draw on reserve stocks of grain in order to meet current needs. 2/ A revised estimate places the withdrawal from grain reserves in 1953-54 at about 2.4 million tons.**

In the 1954-55 consumption year, probably the USSR again was forced to withdraw from grain reserves -- particularly reserves of wheat -- in order to meet food requirements, to fulfill export obligations, and to provide seed for the expansion of acreage under the "new lands" program.

Indigenous production and imports of food products other than grain probably provide a supply sufficient to meet current requirements, with no net change in stocks.

^{*} For serially numbered source references, see Appendix D.

^{**} For methodology, see Appendix B.

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C. Food Consumption.

The daily intake per capita in the USSR in the 1954-55 consumption year is estimated to be 2,642 calories. This level of intake represents an increase of only 26 calories above the level of 1953-54 and is still 113 calories, 4 percent, below the level of 1938-39. An index of caloric consumption in the USSR, in 1938-39, 1952-53, 1953-54, and 1954-55, is shown in Table 1.

Table 1

Index of Caloric Consumption in the USSR 1938-39, 1952-53, 1953-54, and 1954-55

Year	Index
1938-39 1952-53 1953-54 1954-55	100 97 95 96

There is no available information on the different levels of consumption among various segments of the Soviet population. In prewar years, however, the urban population consumed a higher proportion of the quality foods than did the rural population. It is likely that this differentiation has continued and, in fact, may have increased during the last few years, when the government has been able to procure a greater proportion of meat, milk, and the like from the producing rural regions.

The distribution of food has been a continuing problem in the USSR. In February 1955, 3/Khrushchev suggested a revision of the program for the distribution of agricultural produce -- a revision which would have the effect of increasing local responsibility for meeting production targets. In this proposal, agricultural produce

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would be allocated to various areas more on the basis of production than on need. In effect, this procedure would penalize areas failing to meet production goals. According to Khrushchev, "a definite part of the centralized state fund (food obtained through procurements) must be directed to the satisfaction of the needs of the larger towns and industrial centers which cannot draw sufficient produce from neighboring regions, and also to the satisfaction of the needs of the army, foreign trade, and state reserves. As for the remainder of the centralized fund, it must be distributed among the other towns and regions of the country with regard to their actual needs and taking into account existing production possibilities." 4/

D. Pattern of Food Consumption.

In recent years the pattern of food consumption in the USSR has been nearly the same as it was in 1938-39. The percentage distribution of calories in the USSR, by category of foodstuffs, in 1938-39, 1953-54, and 1954-55, is shown in Table 2.*

Table 2 shows that starchy foods account for about three-fourths of the total caloric intake and that in the average Soviet diet grain products alone account for two-thirds of the total. The slight percentage changes shown in Table 2 indicate the continuity of this pattern of a relatively low-quality diet.

Daily calories per capita for selected categories of foods in the USSR, in 1938-39, 1953-54, and 1954-55, are shown in Table 3.**

Table 3 shows that, in terms of absolute quantities, the caloric intake from grain products has declined in the last 2 years compared with 1938-39. There also has been a sharp decrease in consumption of whole milk. Per capita consumption of sugar and fats and oils has increased somewhat, primarily because of imports to supplement indigenous production.

^{*} Table 2 follows on p. 11.

^{**} Table 3 follows on p. 12.

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Table 2
Percentage Distribution of Calories in the USSR 1938-39, 1953-54, and 1954-55

			Percent
Food	1938-39	1953-54	1954-55
Wheat Rye	35.7 21.6	38.3 20.2	37.1 21.2
Total bread grains	<u>57.3</u>	58.5	<u>58.3</u>
Nonbread grains Potatoes	10.2	7.8 11.7	7.6 11.3
Total basic foods	<u>77.8</u>	<u>78.0</u>	77.2
Meat and fish Fats and oils Sugar Milk	4.1 5.8 4.3 8.0	4.1 7.6 5.5 4.8	4.0 8.2 5.7 4.9
Total quality foods	22.2	22.0	22.8
Total foods	100.0	100.0	100.0

Table 3

Daily Calories per Capita of Selected Categories of Foods in the USSR a/
1938-39, 1953-54, and 1954-55

	1938-39	1953	1953-54 1954-55		
Food	Calories Consumed	Calories Consumed	Change from 1938-39	Calories Consumed	Change from 1938-39
Grain Potatoes	1,859 285	1,734 305	-125 + 20	1,742 299	-117 + 14
Total basic foods	2,144	2,039	<u>-105</u>	2,041	-103
Meats and fish Fats and oils Sugar Milk	112 159 119 221	107 200 143 127	- 5 + 41 + 24 - 94	106 216 151 128	- 6 + 57 + 32 - 93
Total quality foods	611	<u>577</u>	<u>- 34</u>	601	- 10
Total foods	2,755	2,616	<u>-139</u>	2,642	<u>-113</u>

a. Foods shown in the food balances (see Appendix A) represent about 95 percent of the total caloric intake.

E. Food Requirements.

The abundant publicity given by Soviet leaders to the problems of agriculture in the USSR and the extreme measures taken to increase total output indicate the continued failure of agricultural production to meet current requirements. The necessity of withdrawals from grain reserves during the past two years further emphasizes the failure.

The "new lands" program, inaugurated in the spring of 1954 for expanding wheat acreage in marginal lands, largely in West Siberia and Kazakhstan, continues to receive great emphasis. In addition, a sevenfold expansion of corn acreage by 1960 was announced in February 1955 and has been widely publicized. These two programs are designed to increase both the numbers and productivity of livestock herds and to double the output of livestock products by 1960. Such a goal in itself is unrealistic, but it represents an attempt to improve the present low-quality diet. In February 1955 Khrushchev stated that in addition to the grain needed for direct consumption, for reserves, and for export, grain was needed to meet the requirements of an expanding livestock industry. Production of grain significantly in excess of that achieved in 1954 would be necessary, however, before feed allocations could be high enough to raise the output of livestock produce to a level permitting any significant increase in the intake per capita of such products -- particularly in view of the needs of a population which is increasing by more than 3 million per year.

F. Capabilities, Vulnerabilities, and Intentions.

1. Capabilities.

In no postwar year have food shortages been sufficiently serious to deter possible Soviet military action, and during the 1954-55 consumption year, there was no significant change in either the total caloric intake or the composition of the average Soviet diet.

In 1954 the "new lands" area of West Siberia and Kazakhstan had unusually favorable weather, and a bumper crop was harvested in much of this area. Similar success over a period of years is unlikely, but there is the possibility of generally favorable weather throughout much of the USSR in any one particular year, with a resultant production of bumper crops.

2. Vulnerabilities.

The USSR is engaged in two broad programs which seem to have little likelihood of long-run success. The first of these, the grain expansion program in the "new lands" area, has been referred to briefly above. This "new lands" program is being implemented with some of the necessary inputs -- machinery, labor, building, transportation, and the like -- at a somewhat faster pace than that set in the majority of the "cure-all" programs previously inaugurated. Pending completion of more detailed research on the capabilities of the "new lands" project, it is believed, however, that natural factors, particularly climate, place definite limitations on the long-run success of the program.

The corn expansion program is the second project currently being stressed by Soviet leadership. The Soviet attempt to inaugurate an Iowa-style corn-hog program on the scale envisioned appears even more risky and costly than the "new lands" program. The USSR has no major area geographically or climatically similar to the US corn belt. Even assuming that corn is to be harvested as silage, the inputs of labor, machinery, fertilizer, and the like would be extremely large even to approach the planned goals. It is extremely doubtful that the corn expansion program will produce a significant increment per hectare above that already being produced on the same types of land by other crops. In fact, it is not improbable that the whole program will fall into disrepute, along with previously abandoned projects such as the grass rotation program in dry areas.

3. Intentions.

The Soviet food balance in 1954-55 contains no definable indications of intentions to wage war. The current emphasis on strengthening the agricultural sector of the economy appears to be the result of belated recognition of lags in agricultural production and does not in itself indicate definite intentions.

III. European Satellites.

The following discussion concerning the current food situation in the European Satellites will treat, as far as possible, the area as a whole. Where the situation in a specific country warrants individual treatment, this will be given. In discussing commodity production and food availabilities, the European Satellites will be divided into northern* and southern** groups, where such a division is applicable.

A. Food Availabilities.***

1. Production.

Agricultural production in 1954 in the European Satellites failed once again to reach prewar levels. In spite of government policies directed toward increasing productivity under the "new course," agricultural production in 1954 in the European Satellites as a whole registered only a 1-percent increase over 1953.

During the consumption year from 1 July 1953 through 30 June 1954, adverse growing and harvesting conditions**** reduced the 1954 harvest of grains and oilseeds in a number of the European Satellites. Bread grains were particularly hard hit.***** Not only was the harvest poor quantitatively, but also the quality of bread grain was below average. In the grain harvest of 1954, Poland was able to show a 13-percent increase over 1953 -- when the harvest was below normal -- and Albania and Bulgaria showed only slight increases.

Although production of potatoes in Czechoslovakia, East Germany, Hungary, and Albania was greater in 1954 than in 1953 -- East Germany having the greatest increase -- the quality of the potatoes was affected by high moisture content, and losses during storage may reduce availabilities for food. Likewise, production of sugar beets in 1954 approximated or, as in Czechoslovakia and

^{*} Czechoslovakia, East Germany, and Poland.

^{**} Albania, Bulgaria, Hungary, and Rumania.

^{***} Statistical data contained in this section, unless otherwise noted, have been derived from Appendix A, Tables 15 through 35.

^{****} Flooded lowlands in Czechoslovakia, East Germany, and Hungary increased harvesting losses.

^{*****} See Table 5, p. 18, below.

East Germany, exceeded that of 1953, but the quality of the beets, in terms of sugar content, was poor, and production of sugar in 1954 in the European Satellites as a whole was less than in 1953.

Production of animals and animal products, which has continually failed to satisfy increasing postwar demands, did not increase significantly in 1954. Although there was a small over-all increase in hogs and cattle, the primary meat animals, their production in Czechoslovakia, East Germany, and Hungary decreased somewhat. None of the European Satellite governments claimed that the 1954 plan for production of animals was fulfilled.

In 1954 the European Satellites failed once more to increase availabilities of foodstuffs through increased indigenous production, despite the "new course" measures adopted. To maintain adequate levels of consumption during 1954-55, the European Satellites have had to depend, probably to a greater extent than at any time since 1947, on imports of food.

An index of agricultural production in the European Satellites, by country, in 1938 and 1948-54, is shown in Table 4.* An index of agricultural production in the European Satellites, by product, in 1954, is shown in Table 5.**

2. Trade.

During the 1954-55 consumption year the European Satellites imported large quantities of grain, animal fats, and fish. The northern European Satellites accounted for most of the imports of food, as they did in 1953-54. For the first time since 1947, Hungary and Rumania were net importers of bread grains. Normally exporters of grain to the West, the European Satellites negotiated for imports of approximately 1.9 million tons of grain from the West during 1954-55. Imports of quality foods, animal fats, and vegetable oil showed a slight decline. Imports of fish in 1954-55 by East Germany, the major Satellite importer, increased by 10,000 tons over imports in 1953-54.***

^{*} Table 4 follows on p. 17.

^{**} Table 5 follows on p. 18.

^{***} Continued on p. 19.

Table 4

Index of Agricultural Production in the European Satellites, by Country 1938 and 1948-54

							1953 = 100	100
Country	1938	1948	1949	1950	1951	1952	1953	1954
European Satellites a/	126	11	48	24	66	96	700	101
Bulgaria Czechoslovakia East Germany Hungary Poland Rumania	154	112 78 92 102	101 104 83 83 83 83	104 94 105 103 95	108 611 8 95	102 104 104 116	000000000000000000000000000000000000000	106 108 102 102 103 103

a. Not including Albania.

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Table 5

Index of Agricultural Production in the European Satellites, by Product 1954

1953 = 100

Rumania	46 101 108 109 109	1000
Poland	113 108 100 95 85	100 104 100 100 100 100 100
Hungary	78 87 107 100 79	100 101 100 110 94
East Germany	95 25 25 88	99 109 109 108 108
Czechoslovakia	87 91 101 100 100	100 127 100 106 106
Bulgaria	105 94 91 91	96 401 96 100 113 101
Albania	001 001 111 60 60	100 102 108 112 112 100 100
Product	Field Crops Bread grains Total grains Potatoes Sugar beets Ollseeds	Lives.tock and Animal Products Horses Cattle Hogs Sheep Goats Meat Animal fats

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For some years, sugar has been the major agricultural export item of the European Satellites. Exports of sugar in 1954-55 probably declined 150,000 tons below the levels of 1953-54, largely because of the shortfall in production. Rumania, an exporter of sugar during the postwar years, has been a net importer in the 1955 calendar year. Despite current shortages of meat throughout the Sino-Soviet Bloc, Poland and Rumania have continued to export meat to the West.

Although imports of foodstuffs by the European Satellites have increased during 1954 and 1955, they have not been sufficient to improve significantly either the quality or the quantity of the worker's diet. If requirements are to be met, greater quantities of animal products and vegetable oils will have to be imported. Such imports will force the European Satellites into greater dependence on the West; it does not appear that the USSR is willing to increase its exports of food to the Satellites. Because the European Satellites have been forced to use foreign exchange for imports of food rather than for imports of raw materials for the consumer goods industries, the planned increases of consumer goods promised under the "new course" have not materialized.

Estimated net trade in selected agricultural commodities by the European Satellites in prewar, 1953-54, and preliminary 1954-55 is shown in Table 6.*

3. Changes in Stocks.**

Three consecutive below-normal harvests in the European Satellites and the "new course" policy of increasing availabilities of foods to the consumer probably have forced a temporary halt in the stockpiling of foodstuffs. Although there is no definite information on state reserves, withdrawals from reserves, as announced

^{*} Table 6 follows on p. 20.

^{**} The term stocks refers to state reserves of food that are kept for strategic purposes -- military, economic, or political. Normal inventories and channel stocks are not considered; these stocks are assumed to be held at relatively the same level from year to year.

Table 6

Estimated Net Trade in Selected Agricultural Commodities by the European Satellites g/ Pretiminary 1954-55

Thousand Metric Tons

1 1	δ. °E	,			•		
Total	2.636 867.5 2.363	334.55	-1,040 - 973 - 824	175 151.2 118.2	26 59.5 52.5	175 123	130
	1 + +	년 + +	7.,	1 1 1	+ + +	+ + +	+++
Rumania	-235 -289 +211	-364 - 26 -154	+ + +	- 25 - 40 - 50	, , ,	+ + + 8 1	+ 5 Negligible Negligible
and	135 485 845	525 75 50	435 435 315	205 120 120	822	883	୦ରର
Poland	-1,135 + 485 + 845	1 1 4	1 1 1	1 1 1	1 1 1	+ + +	1 1
Hungary	-585 - 65 +420	+ + 1962	- 23 - 27 - 31	35 - 15	+ 2 ¹ 4 + 5	+ 1 +	000
East Germany b/	-565 +313 +303	-140 +243 +236	-400 -300 -300	+ + + 12 40	+ 40 + 76 + 75	+215 +102 + 60	+ 25 + 90 +100
Czechoslovakia	+ 18 +600 +726	+ 55 +200 +486	-217 -176 -183	+ 15 + 27 + 35	+ + + 54 157	+ + + 49 44 49	+ + + 50
Bulgaria	-135 -257 -227	-153 - 75 - 80	 	- 15	,	000	+ l Negligible Negligible
Albania	+ 1.0 +80.5 +85.0	+14.0	+ +	0.00	+ 0.5	+ + +	000
Year	Prewar c/ 1953-54 1954-55	Prevar c/ 1953-54 1954-55					
Commodity	Bread grains	Other grains	Sugar	Meat	Animal fats d	Vegetable oils	Fish

a. The plus sign (+) denotes import, and the minus sign (-) denotes export.

b. East German commodity deliveries to Soviet occupation forces are considered as exports.

c. 1933-37 average for Albania, Bulgaria, Czechoslovakia, Hungary, and Rumania; 1934-38 average for Poland; and 1935-38 average for East Germany.

d. Including slaughter fats and butter.

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by some of the Satellites in 1953, and recent official statements of the need to increase agricultural production to provide adequate reserves in times of emergency, tend to confirm assumptions of failures in the stockpiling programs of the European Satellites. The use of critically short foreign exchange for imports of food in 1954-55, moreover, indicates the inadequacy of the reserves that the Satellites may have had to draw on in times of short supplies.

It is estimated that during 1954-55 no additions were made to state reserves of food in the European Satellites except small quantities of sugar in Czechoslovakia and of wheat in Bulgaria. If there were additions other than those mentioned, the food available to the population was in even shorter supply than is presently estimated. The possibility of grain being stockpiled by Poland should not be discounted, in view of its large imports, but there is no evidence of such stockpiling.

B. Food Consumption.*

Estimated daily consumption of food per capita in the European Satellites during 1954-55 ranged from 1,742 calories in Albania to 2,963 calories in Poland. In the other Satellites the range was from 2,300 to 2,500 calories per day.** In the US in 1954-55, normal daily consumption of food per capita was 3,200 calories.

Food rationing was abolished by Rumania in December 1954, and only Albania and East Germany still ration certain foodstuffs. With the announcement of the "new course" in 1953, the government of East Germany promised the people that food rationing would be discontinued in 1954. The poor harvest in 1954 and inadequate imports, however, prevented the abolition of rationing of meat, fats, and sugar, and in 1954-55 the caloric intake in East Germany was lower than that of 1953-54. Bulgaria and Poland were the only European Satellites able to reach or to exceed prewar levels of caloric consumption per capita in 1954-55. An index of daily consumption of food per capita in the European Satellites in 1948-49 and 1951-52 through 1954-55 is shown in Table 7.***

*** Table 7 follows on p. 22.

^{*} For methodology, see Appendix A.

** East Germany, 2,308; Rumania, 2,329; Hungary, 2,362; Czechoslovakia,
2,423; and Bulgaria, 2,482. The range of error in calorie estimates is
15 percent.

Table 7

Index of Daily Consumption of Food per Capita in the European Satellites 1948-49 and 1951-52 through 1954-55

agas in ga naganaga kanala samagan sagan nagan nag	errete tratic and because a trademost question and a surface	en skriver og en skip och to skill gent i grad flyg i skill en skill en skill en skill en skill en skill en sk		Prewar	= 100 ª/
Country	1948-49	1951-52	1952-53	1953-54	1954-55
Albania Bulgaria Czechoslovakia East Germany Hungary Poland Rumania	N.A. 102 102 80 1.00 98	92 99 101 80 96 99	84 90 90 75 88 98	99 97 101 91 90 106 84	99 102 96 82 90 107 89

a. 1933-37 average for Albania, Bulgaria, Czechoslovakia, Hungary, and Rumania; 1934-38 average for Poland; and 1935-38 average for East Germany.

A basic problem that has plagued the governments of the European Satellites in recent years is the procurement and distribution of food. During 1954-55 the situation did not improve, and every Satellite government admitted failure in fulfilling procurement plans. Because compulsory delivery quotas were reduced as part of the "new course," nonfulfillment of these quotas greatly reduced the share of indigenous food production controlled by the governments through official distribution channels. This situation created shortages in urban areas, and the population was forced to purchase a greater share of their food requirements on the free market at high prices.

East Germany in particular suffered during the 1954-55 consumption year. The government could not procure adequate quantities of foodstuffs from the peasant, and it could not increase imports to make up for this loss. As a result, consumption of food declined in the cities, and an extremely tight food situation existed throughout the last half of the 1954-55 consumption year. The shortages created

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worker unrest and contributed to lower productivity. Less serious but similar situations developed in both Czechoslovakia and Hungary. The recent reintroduction of a stiff collectivization policy in both Czechoslovakia and Hungary probably includes the strong enforcement of compulsory delivery quotas, which gives the government control of a larger share of agricultural production, particularly in years of belownormal harvests.

C. Pattern of Food Consumption.

The "new course" emphasized the need to increase consumption of quality foods, particularly of meat and fats. The growing industrialization of the European Satellites levies greater demands for animal protein for consumption by the labor force. On an average per capita basis, however, consumption of meat and animal fats has remained below prewar levels, and there was no significant improvement in the diet in the 1954-55 consumption year. The percentage contribution of selected foods to total caloric consumption in the European Satellites in prewar years, 1952-53, 1953-54, and 1954-55 is shown in Table 8.*

The more highly industrialized northern European Satellites have had the greatest difficulty in supplying enough food of the required quality and variety. A shortfall in production of animal products and vegetable oil has been felt especially by East Germany and Czechoslovakia -- both countries have been making trade overtures to Western countries in an attempt to import meat and dairy products.

Improvement in the quality of the diet in the European Satellites during the next 2 to 3 years will have to come from increased imports rather than from indigenous production. It is unlikely, however, that the European Satellites are willing to expend the required amount of foreign exchange for the large quantity of animal products needed to effect a significant improvement in the diet of the average worker.

^{*} Table 8 follows on p. 24.

Table 8

Percentage Contribution of Selected Foods to Total Caloric Consumption in the European Satellites Prewar, 1952-53, 1953-54, and 1954-55

Percent

Rumania	88 81 82 82	анак	ころこれ	ማ ኮ ላታ ድ	N 0 0 N
Poland	50 50 52	9922	22 19 17	9000	0,00 0,00
Hungary	62 67 64 63	# 8 6 O	0440	<i>00</i> 00	ដូនជន
East	33 46 46 48	01-00	ង្ខងង	00000	20 11 18 17
Czechoslovakia	51 54 53 54	0 F-00 Q	11 11 9	~ 0 σ.ω	#1225
Bulgaria	88833 847	ଉ ପ ପ କ ଳ	l Negligible 1	ഗഷ നന	86-98
Albania	81 847 86 86	๛ ฌ ๛๛	Negligible b/ Negligible Negligible Negligible	๛ ผฺ ๗ ๛	13 9 7
Year	Prewar <u>a/</u> 1952-53 1953-54 1954-55	Prewar <u>a/</u> 1952-53 1953-54 1954-55	Prewar <u>a/</u> 1952-53 1953-54 1954-55	Prewar <u>a/</u> 1952-53 1953-54 1954-55	Prewar <u>a/</u> 1952-53 1953-54 1954-55
Foods	Cereals	Sugar	Potatoes	Meat	Fats and oils

a. 1933-37 average for Albania, Bulgaria, Czechoslovakia, Hungary, and Rumania; 1934-38 average for Poland; and 1935-38 average for East Germany.
b. Less than 0.5 percent.

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D. Food Requirements.

In the European Satellites, official press releases during 1955 emphasized the lag in agricultural production and the failure of output to meet requirements. Substantial increases in the imports of foodstuffs from the West during 1954 and 1955 are clearly indicative of indigenous shortages. Because of the decline in indigenous production, however, the increase in imports has not been sufficient to provide a net increase in the availability of foodstuffs.

During the 1954-55 consumption year, the governments of the European Satellites made no greater progress toward a satisfactory balance between food supply and food demand than had been made in the 1953-54 consumption year. 5/ East Germany and Czechoslovakia, moreover, had greater difficulty in satisfying food requirements during 1954-55 than in 1953-54.

E. Capabilities, Vulnerabilities, and Intentions.

1. Capabilities.

Under present government policies, no immediate improvement in the food supply of the European Satellites is likely. It is possible that, on a short-term basis, tighter government control of procurement could direct a larger share of the present production of foodstuffs to the industrial worker and thereby improve his supply of food. In the long-run, however, such a program would have disastrous effects on the incentive to peasants and would reduce production to a level at which food availabilities would decrease substantially.

The military capabilities of the European Satellites, particularly East Germany, Czechoslovakia, and Hungary, have been affected by industrial workers dissatisfied with the supply of food and by the low level of agricultural productivity.

2. Vulnerabilities.

The governments of the European Satellites have been unsuccessful in raising levels of agricultural production and in obtaining an adequate share of indigenous production to meet urban

requirements. In times of a shortfall in production, therefore, the urban population has suffered, and, lacking control over a sizable share of the food, the governments have had difficulty in lowering basic food costs to the worker.

During 1954 and 1955 the European Satellites have increased their dependence on the West for imports of foodstuffs, particularly grain, meat, animal fats, and fruit. It is probable that, in order to maintain or improve present levels of consumption of quality foods, the Satellites will be forced to continue imports from the West. If Western imports were cut off, the food supply available to the labor force would be reduced and costs would be increased. Labor productivity and industrial production would certainly decline. In spite of substantial imports of food, East Germany is now faced with a labor force highly dissatisfied because of a shortage of basic foods.

3. Intentions.

Positive indications of the military intentions of the European Satellites would be strict food rationing in times of normal production and major additions to state reserves of foodstuffs. There has been no evidence of such activity during the 1954-55 food consumption year.

IV. Communist China.

A. Food Availabilities.

1. Production.

Production of food crops* in Communist China is estimated at 156 million tons in 1954, approximately 4 to 5 percent lower than the 163 million tons estimated to have been produced in 1953.**

^{*} Food crops do not include cottonseed, which is crushed for oil.

** In these estimates, potatoes are on a gross weight basis. It has been the custom to report food production with potatoes on a grain-equivalent basis. This is not done in this report, because it is believed that the Chinese Communists are reporting production with potatoes included on a gross weight basis. Thus, in December of 1954, they claimed that production of "grain" for the year was 170 million tons. 6/ This claim fitted conveniently with the plan of January 1954, which called for a 3-percent increase in agricultural production over that of 1953.

Production of food in 1954 was approximately at the average of production in the 1931-37 period and about 11 million tons below the peak of production in 1952 -- the best year under the Chinese Communist regime. Between 1937 and 1954 the population of China increased about 22 percent.

In 1954, production of food in Communist China was reduced seriously by the extensive floods in the chief rice-producing districts of the Yangtze and Huai Rivers. Production of winter crops, however, was greater than that of the previous year, and other crops outside the area of floods were relatively good. Although these favorable factors somewhat offset the losses occasioned by the floods, in 1954-55 the availability of foods for human consumption, in terms of calories per capita per day, was about 20 percent below the level of 1931-37.

In contrast to prewar levels in China, there has been in recent years a definite decrease in the average availability of food. This decrease is shown in the following tabulation:

Food Balance	Index of Calories per Capita per Day*
1931-37 average	i00
1952-53	84
1953-54	84
1954-55	80

Concerned by the low level of the availability of food, the Chinese Communists, without marked success, have exerted efforts to increase production of food. The government has inaugurated a program to transfer food between surplus and deficit regions, and

^{*} Because of the number of quantitative estimates required in the preparation of each food balance, some of which are based on very little information, the acceptance of the quantitative results shown in the food balances is unwarranted. For example, it is probable that the indexes of the postwar period overstate the actual fall in the availability of food per capita. The general trend and the relationship between the various periods, however, are believed to be correct.

this action has been accompanied by rationing restrictions affecting a considerable segment of the population. In spite of this effort, preharvest hunger in certain localities has been common each spring in Communist China. Even in 1953, after the comparatively good harvests of 1952, preharvest hunger was relatively widespread. This condition has developed into actual famine in some limited areas. It is probable that, if the food balance in 1954-55 reflects the true situation in that year, the spring of 1955 was a particularly critical period for those living in the deficit areas.

2. Trade.

Before World War II, China was a net importer of grains and a heavy exporter of oilseeds and their various oils.* On a net basis, China exported about 25 calories per capita per day, roughly 1 percent of the average calories per capita per day of the average diet.**

During the period of Chinese Communist control, the government has tried to reduce to the smallest practical extent imports of foodstuffs and to expand exports of agricultural commodities for the purpose of obtaining foreign exchange for imports of capital goods.

Sal Sales

As a result of this policy, the Chinese Communists have increased total exports of food, both calories per capita per day and percentage of total calories available to the population. Exports of agricultural commodities by China, 1931-37 average, 1953-54, and 1954-55, are shown in Table 9.***

It is clear that, in a relative sense, Chinese Communist exports of food in terms of the total availabilities are not large. In a country in which absolute availability is at a low level, however, exports of even small magnitude have had adverse psychological effects. The Chinese Communist propaganda has tried to reduce resentment among consumers by pointing out that exports of certain items are only a small part of total production of those items.

Although the estimate of net exports in 1954-55 by Communist China must necessarily be a preliminary approximation subject

^{*} This statement includes Manchuria.

^{**} See Appendix A, Table 36, p.

^{***} Table 9 follows on p. 29.

Table 9

Exports of Agricultural Commodities by China 1931-37 Average, 1953-54, and 1954-55

	The state of the s	and the second s
Period	Calories per Capita per Day	Percentage of Total Available Calories per Capita per Day
1931-37 average 1953-54 1954-55 <u>a</u> /	24 53 40	1.2 3.1 2.4

a. Preliminary estimate.

to revision, it is compatible with other evidence. Both 1952 and 1953 were years of normal, or better-than-normal, food production, but in 1954, production was adversely affected by weather conditions. During the 1954-55 consumption year, moreover, there was some reduction in the shipments of grain which had been going to North Korea as part of the plan of Chinese Communist aid to that country. This reduction would be expected, as North Korea probably increased its production of grain after the end of the Korean hostilties. It is probably true that 1954-55 was a year of leveling out in the rate of increase of Chinese Communist exports of foodstuffs that had held from 1949-50 through 1953-54.

3. Stocks.

The status of food reserves in Communist China continues to be a subject on which data are insufficient to support a quantitative estimate. For the purposes of estimating food balances, consequently, the assumption has been made that from year to year movements into and out of stocks have been about equal. There are reasons to believe that a state reserve of foodstuffs is programmed by the government of Communist China. Both the general level of food availability and the extent of the export program, however, indicate that

withdrawals for a large reserve have been unlikely.* It is possible that some reserves were laid by in 1952, which was an excellent production year, and in 1953 these reserves may have been maintained and even increased. It is difficult to see how these reserves, even if they exist, could be maintained in 1955. Assuming that such reserves existed and have been maintained, they would be reflected in the availabilities of calories per capita per day -- calories per capita per day for 1953-54 would be somewhat lower than are shown in the food balances for that year. If these reserves were used, in part or in whole, to meet the emergency of the flood disaster in 1954, then the food balance for 1954-55 should show greater availability of calories per capita per day than it actually does. Although it is possible that reserves of food were used at that time, this hypothesis is not supported by the food balances for those years.**

B. Pattern of Food Consumption.

The level of living in any country, insofar as foodstuffs are concerned, is determined roughly by the "starchy staple ratio."*** This ratio has always been high in China -- more than 75 percent for the periods shown in the food balances. The starchy staple ratio has shown considerable stability, and there has been no significant change under the Communist regime. The percentage contribution of selected foods to total caloric consumption in China, 1931-37 average, 1953-54, and 1954-55, are shown in Table 10.****

* There is no general agreement with this opinion. Indirect evidence has suggested to some analysts that perhaps as much as 7 million tons of grain were withdrawn for reserves in 1952.

^{**} To give some idea of possible magnitude, the following data are presented: 5 million tons of grain (wheat and rice), on the basis of 575 million population would, on the average, afford between 60 and 70 calories per capita per day. Thus the calories available per capita per day in 1954-55, as shown in the food balance for this year, could be raised 60 to 70 calories if (1) the government had reserves of 5 million tons of grain, and (2) released these reserves in the 1954-55 consumption year.

^{***} The starchy staple ratio is the ratio of calories from grain products and potatoes to total calories consumed. In general, the more wealthy a country, the lower will be this ratio. Thus, for the US, this ratio was about 42 percent in the 1909-13 period, but by the 1949-50 consumption year the ratio had fallen to about 27 percent. The example of the percent of the percent. The percent of th

Table 10

Percentage Contribution of Selected Foods to Total Caloric Consumption in China 1931-37 Average, 1953-54, and 1954-55

			Percent
Food	1931-37 Average	1953-54	1954-55
Wheat Other grains Rice Potatoes	16.4 23.8 35.3 3.3	15.6 23.0 35.4 <u>a</u> / 4.8	18.2 25.0 30.6 4.5
Total basic foods	<u>78.8</u>	<u>78.8</u>	<u>78.3</u>
Oilseeds Meat, eggs, and fish b/ Fats and oils Other	5.0 3.8 5.5 6.9	5.7 4.0 5.0 6.5	5.3 4.2 5.4 6.8
Total quality foods	21.2	21.2	21.7
Total calories	100.0	100.0	100.0

a. Raised O.1 percent to balance.

Table 10 gives no indication of a trend in the composition of the diet. Such a trend can best be shown by a comparison of the actual calories furnished by the various foods. Trends in the consumption of selected foods in Communist China in 1953-54 and 1954-55 are shown in Table 11.* Table 11 indicates that trends or shifts in the consumption of individual foods probably are not significant. The dominant fact is the general decrease in available calories, reflected in consumption of all foods except potatoes. The fact that the contribution of potatoes to total calories has increased while those of other foods have fallen may reflect some deterioration in the quality of the diet.

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b. Excludes fat and fat cuts of pork, which are listed with fats and oils.

^{*} Table 11 follows on p. 32. - 31 -

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Table 11

Trends in Consumption of Selected Foods in Communist China 1954-55

		1931-37 Average (Total Calories	33.	Total basic foods	10) 72 11 14.	Total quality foods $\frac{43}{13}$	Total calories 2,067
		Average alories)	338 191 731 68	528	104 78 114 143	439	<u>19</u> c
Changes	1953-54	Total	273 402 618 83	1,376	100 69 87 113	369	2,745
in Calori	-54	Net Change	- 65 - 89 - 113 + 15	-252	4 6 7 8 9 9 4	- 70	-325
Changes in Calories from 1931-37	1954-55	Total Calories	305 419 512 75	1,311	89 70 90 9114	363	1,674
31-37	-55	Net Change	1 33 1 1 72 1 1 7 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-317	15 15 12 12 12 12	- 76	-393

a. Excludes fat and fat cuts of pork, which are listed with fats and oils.

C. Food Requirements.

Requirements for food in Communist China are difficult to define because they are relative and may be defined in either an economic (demand) or a physical (necessary levels of energy intake) context. It is known that, although preharvest hunger occurs in Communist China, the population continues to expand. In an absolute physical sense, then, there must be enough food to go around and, over given periods of time, to take care of greater absolute numbers. On the basis of present nutritional data, however, no one really knows just what figure for the average number of calories per day represents the minimum requirement. The only possible conclusion is that increasing population, demands for industrialization of the economy, and demands for exports of food products increase food requirements at a rate that probably is slightly greater than the rate of increase in production. This conclusion is supported by evidence of the deterioration of the average diet, as shown in the food balances, and of the apparent increase in the incidence of preharvest hunger.

D. Capabilities, Vulnerabilities, and Intentions.

1. Capabilities.

The lowered caloric intake per capita in Communist China during the 1954-55 consumption year probably has not been sufficient to deter the government from possible military action. Given favorable weather conditions, Chinese Communist agriculture should be able to increase production considerably during the next few years. Stiffening of the procurement mechanism and improvement in the allocation of foodstuffs to non-self-suppliers should contribute to greater nonfarm labor productivity and should increase the capability of agriculture to support a growing industrial economy.

2. Vulnerabilities.

The food level of the average citizen of Communist China is such that in the event of hostilities the interdiction of internal food movements would result in local shortages and probably in local famine. This does not mean, however, that such occurrences would affect the capability to wage war. Chinese Communist control over the national supply of food is such that the government can divert

S-E-C-R-E-T

food to military end uses at the expense of the population. The ultimate effects of a policy of ignoring population distress over food shortages, however, are unknown. The apparently low level of strategic stockpiles, coupled with the relatively low average of food availability in Communist China, indicates that a disastrous crop year through either natural or man-created causes might represent a considerable setback to the capabilities of the Chinese Communists.

The interdiction of food imports by hostile action, either by economic sanctions or by naval blockade, will not affect the food position adversely. To the extent that Western action might decrease exports of grain and oilseeds, it would tend to raise levels of food availability in Communist China.

3. Intentions.

In the Chinese Communist Mood balances in this report, there are no definable indications of intentions. Although the government has programmed stockpiles of grain for a number of eventualities, there is no evidence of extreme stockpiling efforts that might indicate that the Chinese Communists are planning major military activity.

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APPENDIX A

STATISTICAL TABLES

The statistical tables (Tables 12 through 38) in this appendix show food balances for the USSR, the European Satellites, and Communist China. For each country, three food balances are given -- for a prewar period and for the 1953-54 and 1954-55 consumption years. Except for revisions of some estimates, the food balances for the prewar periods and the 1953-54 consumption year are essentially the same as those given in source 8/. The methodology for the revised estimates in these balances and for the estimates in the balances in the 1954-55 consumption year is explained either in the footnotes to the individual tables or in Appendix B of this report.

Eddy Mark

Eatlmated Supply and Utilization of Food in the USSR 11/ Consumption Year 1938-35 by (Population: 192,300,000)

				PO	(Population: 192,300,000)	192,361	(200			Thousand Metric Tons (Except Where Noted)	oric Tons	Except Whe	re Noted)
		0	-	3	~	9	7	8	6	01	π	12	13
	-4	v	1					Ð.	Utilization	c			
		ć				Nonfor	Nonfood Uses			Food	Food Availabilities	1tles	
		Ardding										Per Capita (Net)	a (Net)
Commodity	Production	Net Trade (+Import) (-Export)	Change In Stocks 2/	Total Supply	Seed and Waste	Feed	Industrial	Total	Totel. Gress	Extraction Rate (Percent)	Total Net Food	Kilograms per Year	Calories per Day
Grains							,		,	90	79,686	4.901	889
Wheat	33,100	970	4 1,000	31,230	7,100	575	<u>§</u> §	00,4	24,440	85	12,27	63.8	28,
Ryc	00, 61	S 6	1,1,00	50,070	11,100	570	8	12,470	37,600		31,960	166.2	1,578
Subtotal	72,400	3			1 5	8	85	7.700	8	65	325	1.7	27,
Barley Oats	8,90 15,70	888		15,620	, v. 85,8	%,720 019,1	1,000	2,910	888	2, 68	828	ن م م م	78 K
Corn Other d	1,600	2	280	7,100	1,500	28		2,000	ω, · · · · · · · · · · · · · · · · · · ·	3	26.4) 6
Subtotal	36,200	070,1	÷	34.630	7,100	19,430	7,500	SC 030			2 2 2	3 2	8.69
Total grains	009 (FB	000° 3	1,000	91, 700	18,200	000	300	005 07			37.15	9:027	
Sugar (refined) Potatoes	2,207 73,838	- 50		2,157 73,838	23,000	21,000	1,300	45,300	2,157 28,538		29,157 28,538	148.4	582 882
Meat									1,422		1,422	7.4	87.5
Porr and weal Pork	1,622			1,614					1,614		1,614 429		δ _{/Φ}
Mutton mak goat Total meat	37.465			3,465					3,465		3,465	18.0	न्त
Fats and oils									6		d		92
Butter Slaughter fate	250 515			24.5 51.5 838			3 S	30g	52.53		530	લુજા જુજા	7-88 7-18
Vegetable oils g/	95g	3		,	760	8	190,4	5,158	450		6Z	2.3	97
Vegetable oilseeds e/	2,300	30		7,209		or	4.455	5,552	1797		1297	8.6	152
Total ists and olis	009.1	1		3,600		0		8 ¹¹ 8	25,152		1,152	6.0	8 tzz
Milk (whole)	28,400			S9,400 1,40		7							2,755

Total calories per day

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a. Does not include alcoholic beverages.

b. The consumption year 1 July 303 through 30 June 1939 was selected because it is the last prevar year for which detailed statistics on acreage are available and b. The consumption year 1 July 303 through 30 June 1939 was selected because it is the last prevar situation.

c. While blue algorithm and the state reserves and deduction from total supply, and the minus sign (-) denotes deduction from state reserves and addition to the order and prevar and deduction from total supply.

d. Includes a mp. 1929.

d. Includes nonfood as well as edible oils.

S.E.C.B.B.T.

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Table 13

Estimated Supply and Utilitation of Food in the USSR g/ Consumption Year 1953-54 (Population: 214,200,000)

										Thousand Me	tric Tons	Thousand Metric Toms (Except Where Noted)	ere Noted
	ч	CV	٣	4	5	9	t -	8	6	or	ជ	ង	ដ
									Utilization	uo			
		Supply				Nonfe	Nonfood Uses			Food	Food Availabilities	ities	
		+ + + + + + + + + + + + + + + + + + +	5		e e					Extraction	Total	Per Capita (Net)	ta (Net)
Commodity	Production	(+Import)		Total Supply	and	Feed	Industrial	Total	Total	Rate (Percent)	Net. Food	Milograms per Year	Calories per Day
Grains													
Wheat Rye	36,200 18,700	. 1,600	- 1,600	36,200 18,700	3,800	00,400 1000	88	9,900 004,4	26,300	. 85	22,355 12,155	104.4 56.7	1,001
Subtotal	54,900	- 1,800	- 1,800	54,900	1,800	1,500	7,000	14,300	70,600		34.510	161.1	1,533
Barley Osts Corn Other b	6,500 3,800 6,100	100		200 200 400 200 300 300 300 300 300 300 300 300 3	3,000	3,68	700	3,500 83,500 83,500 81,60	3888 8888 8	25.58 25.58	195 90 837 3,510	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 38 153
Subtotal	38,100	8	<u>\$</u>	27,800	9	205,41	2,000	22,500	5,300		2591	27.6	ଷ୍ଟ
Total grains	83,000	- 2,700	- 2,400	82,700	17,800	16,000	3,000	36,800	15,900		39,142	182.7	1,734
Sugar (refined) Potatoes Meat	3,000 66,400	8 8 8 8 + +	300	86,600	21,200	6,500	1,800	32,500	2,900 34,100		2,900 34,100	13.5	143 305
Beef and veal Pork Mutton and goat	1,160	338		1,510					1,510		1,510 1,470 725	7.0 6.9 3.4	ଜ୍ୟୁଷ
Total meat	3,425	- S		3,705					3,705		3,705	17.3	83
Fats and oils													
Butter Slaughter fats Vegetable oils C/ Marine oils Vegetable oilseeds C/	475 1,246 41 41 41 5,989	+ + + + + 9847	+ + +	370 456 1,536 103 6,916	817	55	638 836,2 846,6	58 630 12 12 6,538	37.9 838.5 37.9 84.85		5888 4 £	10.20 10.20 10.20 10.20	55 52 54 54 55 54 54 55 54
Total fats and oils	8,091	+ 1,340	₹ •	2,381	817	275	97879	7,238	2,143		2,143	10.0	8
Fish (landed veight) Milk (whole)	2,450	\$		2,510 18,500	869	2,000		2,000 2,000	1,820 16,500		1,820 16,500	8.5	ដ្ឋ
Total calories per day													2,616

Total calcutes per day
a. Does not include alcobolic beverages.
b. Includes rice and pulses.
c. Includes nonfood as well as edible oils.

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S-E-C-R-E-T

Table 14

Estimated Supply and Utilization of Food in the USSR s/ Consumption Year 1954-55 (Population: 217,800,000)

					Tobarean of					Thousand Me	tric Tons	Thousand Metric Tons (Except Where Noted)	ore Noted)
		a	m	-7	5	9	7	8	6	10	я	ฮ	13
								-	Utilization	on			
		Supoly				Nonfo	Nonfood Uses			Food	Food Availabilities	1tles	
Commoditty	Production	Net Trade (+Lmport) (-Export)	Change 1n Stocks	Total Supply	Seed and Waste	Feed	Industrial	Total	Total	Extraction Rate (Percent)	Total Net Food	Per Capita (Net) Kilograma Calorie per Year per Day	Calories
Grains													ć
Wheat	36,400	- 1,300	2,000	37,100	9,60 3,60 0,00	88	88	30,900 4,600	26,200 15,400	85 85	22,27 13,0%	102.2 60.1	84
Subtotal	26,600	- 1,500	2,000	57,100	13,400	8	1,200	15,500	7,600 14,600		35,360	162.3	मुर्
Barley	7,100	- 350		6,750	1,200	, 200 200 200 200 200 200 200 200 200 200	800	6,200	550	65 455	338	1.6	સ જ
Oats Corn	3,800 3,800 800 800 800	22		, w.	388	, i 8, 3, 8	1,300	88	7 2 2 2 2 2 2 4	`88	3,9%	1.1	নধ
Subtotal	30,400	057		29,950	89.9	15,800	2,100	24,500	5,450		7 662	η· τ <u>α</u>	ଷ
Total grains	97,000	- 1,250	2 000	87,050	30,000	16,700	3,30	000 01	050,74		40,022	183.7	3,742
Sugar (refined) Polatons	2,300	000 000 + +		3,100 67,400	21,600	9,600	2,200	33,400	3,100 34,000		3,100 34,000	14.2 156.1	151 88
France Book Pork	1,370	÷ + +		1,470				-	1,470		1,470	6.8 3.3	2%3
Mutton and goat Total meat	575 574.E	R 8 • •		37975					37975	•	3.675	36.8	ឌ
Fats end oils												;	;
Butter	410	£ +		1,30 1,75			9	9	130 112		\$14 513	0.4.	87;
Simplicr ince Vegetable oils C/ Martable oils Vegetable oils	, 1, 38 1, 4, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	+ + +		1, 689, 1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	850		6, 82 88, 88,	8 zz 8	5,0 8,0 8,0 8,0		1,050 8,050 8,050	1.01	ដួនជ
Total fats and oils	8,306	027.t+		10,086	85		6,922	7,772	2,324		2,314	10.6	973
Fish (landed weight)	2,800	+ 100		2,900	810	2,000		810 2,000	2,090		2,090	9.6 5.1.	ಬಹ್ಡ
Total celonies per day													8,642

Total calories per day

a. Does not include alcoholic beverages.
b. Includes rice and pulses.
c. Includes nonfood as well as edible ofls.

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Table 15
Estimated Supply and Utilization of Food in Albania a/
Consumption Year 1933-37 Average
(Population: 1,000,000)

										Thousand Metric Tons (Except Where Noted)	tric Tons	Except Wh	ere Noted
	п	Ø	Э	4	٧	9	7	æ	6	10	ជ	12	13
								٦	Utilization	ou			
		Supply				Nortfood Uses	l Uses			Food	Food Availabilities	111168	
		Net Trade	Change		Seed				Ē	Extraction	Total	Per Canita (Net)	ta (Net)
Commodity	Production	(+Import)	1n Stocks	Supply	Waste	Peed	Industrial	Total	Gross	(Percent)	Pood	per Year	per Day
Grains													
Wheat Rye	0.54	+ 1.0	•	0.6.0	8.4	0.5 Neglibible		6.9 0.7	37.1	88	33.4	33.4	ଧୃତ୍ପ
Subtotal	० हन	+ 1.0		20.0	9.1	5.9		5.6	10.1		36.4	36.4	346
Barley	6.0			0.0	1.0	0.00		0.0					
Corn Other (except rice)	127.0	• n.o	1	138.0	7.3	12.7		20.0	118.0	96	106.2	106.2	7,047
Subtotel	0.541	아 다 +	,	154.0	10.1	25.9		36.0	113.0		106.2	306.2	1,047
Rice		+ 3.2		3.5					3.2		3.2	3.2	35
Total grains	192.0	+ 15.2		207.2	39.3	26.4		45.6	161.6		145.8	145.8	1,427
Sugar (refined) Potatoes Meat	5.0	₁.₁ ₁ +		4.0	0.7			7.0	1.4		4.4 1.3	म. म. प	L 4
Beef and veal Pork Mutton and goat	3.9 0.7 7.9			3.9 7.9					9.00		3.9	9.50	స్త్రాట్
Total mest	12.5			32.5					12.5		12.5	12.5	킈
Fats and oils													
Butter Slaughter fats Vegetable oils	2.3	0.9 +		6.0 6.3			0.2	0.2	1.3 0.7 8.1		8013 6.74	1.3 0.7 8.1	8 2.8.
Total fats and oils	E:4	0.9		10.3			0.2	0,2	10.1		10.1	10.1	337
Total calories per day													777

a. Does not include alcoholic beverages.

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S-EGRETE

Estimated Supply and Utilization of Food in Albania g/ Consumption Year 1953-54 (Population: 1,300,000)

Table 16

							***************************************			Thousand Met	ric Tons	Thousand Metric Tons (Except Where Noted	re Noted)
	٦	CV	٣	4	ν.	9	7	۵	6	70	ជ	ង	13
								n	Utilization	uc	-		
		Supply	Ŋ			Nonfood Uses	1 Uses			Food	Food Availabilities	lities	
Commodity	Production	Net Trade (+Import) (-Export)	Change in Stocks	Total Supply	Seed and Waste	Feed	Industrial	Total	Total	Extraction Rate (Percent)	Total Net Food	Per Capita (Net) Kilograms Calorie per Year per Da	Calories
Grains													٠
Wheat Rye	103.0	+ 80.5		183.5	20.7	1.0 Negligible		21.7	161.8	85 85	137.5	105.8	1,015
Subtotal	106.3	+ 80.5		186.8	21.5	7.0		22.5	164.3		139.6	107.4	1,030
Barley Onts Corn Other (except rice)	8.5 9.5 125.0	+ 5.0		8.5 9.5 130.0	32.57	6.3 7.9 9.9		8.5 9.5 60.6	4.69	95	59.0	4.54	8गम
Subtotel	0.541			148.0	15.1	56.5	4	78.6	4.09		29.0	4.54	8 1
Rice	0.4			0.4	6.0			0.5	3.5	65	2.3	1.8	18
Total grains	233.3	+ 85.5		338.8	34.1	67.5		101.6	237.2		300.5	154.6	367.1
Sugar (refined) Potatues Meat	3.59			3.6	2.0			9.0	5.9		5.9	1.2	8 ¹ (4
Perf and Veal Pork Mutton and goat	7.03.7 7.08.7	1.0 -	Negligible	3.6					3.6		3.6	2.8 1.5 5.9	ជនគ
Total mest	23.5	عبي -		13.3					13.3		13.3	10.2	외
Fats and oils													
Butter Slaughter fats Vegetable oils	0.0 0.5 0.0	+ + 0.5		0.9			 000	0.3	0.48		0 4.0 6.98	0.0 9.9	41 65 52 41 65 72
Total fats and oils	6.9	+ 2.5		8.4			2.5	57	8.9		8.9	6.8	152
Total calories per day													1,745

a. 141/ Does not include alcoholic beverages.

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Table 17 Estimated Supply and Utilization of Food in Albania g/ Consumption Year 1994-55 (Population: 1,322,000) $\underline{b}/$

										Thousand Met	tric Ton	Thousand Metric Tons (Except Where Noted)	ere Noted)
	н	CV	٣	4	2	9	7	ထ	٥	ឧ	ជ	শ্ৰ	13
									Utilization	ation			
		Supply				Non	Nonfood Uses			Food	Food Availabilities	lities	
Compdity	Production	Net Trade (+Import) (-Export)	Change 1n Ptocks	Total	Seed and Waste	Feed	Industrial	Total	Total	Extraction Rate (Percent)	Total Net Food	Yer Capita (Net) Kilograms Calorie per Year per Day	Calories
Grains													
Wheat Rye	3.8	+ 85.0		3.8	8.8 8.8	1.0		23.8	173.2	85 85	147.2	1.9	1,067 18
Subtotal	9.511	+ 85.0		200.8	23.6	1.0		54.6	2.921		1.641	इन्हात	1,085
Barley Oats Corn Other (except rice)	8.5 10.0 120.0	+ 10.0		8.5 10.0 130.0	2.0	6.5		8.5 68.3	61.7	85	52.4	39.6	391
Subtotel Rice	138.5	+ 10.0	·	148.5	9.11	75.0		96.8	61.7	65	3.9	3.6	197 08
Total grains	261.0	+ 25.0		356.0	36.1	76.0		112.1	243.9	•	206.0	155.8	7,506
Sugar (refined) Potatoes Meat	0.0	5.0		0.7	1.7			1.7	7.0		2.3	5.3	·χ.
Beef and veal Pork Mutton and goat	ლოდ დ. Ο.≄•	. 0.1		# # # # # # # # # # # # # # # # # # #					93.7		w w a	9.9.00 6.1.00	ដង្គ
Total meat Fats and oils	25.2	- 0.2		15.0					15.0		15.0	गृ-स	⁹]
Butter Slaughter fats Vegetable oils	0 0 E	+ 2.0		0 M P 6 6 6			0.9	0.0	0.9 1.7 4.8		0.0	3.6	385
Total fats and oils	5.3	4		2.2			5:0	3.5	7.4		7.4	2.6	221
Total calories per day													1,742

a. Does not include alcoholic beverages. b. As of 1 January 1955. - 41 -

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Table 18

Fatimated Supply and Utilization of Food in Bulgaria g/ Consumption Year 1933-37 Average (Population: 6,550,000)

			-							Thousand Met	Lric Tone	Thousand Matric Tons (Except Where Noted)	.r. Noted)
	н	Ø	m	æ	√	9	7	හ	6	70	п	12	13
									Ut.111 gat.1on	at lon			
		Supply				Nonf	Nonfood Uses			Food	Food Availabilities	Mules	
		Net Trade (+Import)	Change	Total	Seed				, 5 6	Extraction Fig.	Total	Per Capita (Net)	(Yest)
Commodity	Production	(-Export)	Stocks	Klddng	Waste	Feed	Indistrial	Teral	Gross	(Percent)	Food	Dor Year	Pr. Pay
Wheat Rye	1,555	- 120		1,435	275 55	25 10	25	325 75	011,1	£8	844 152	135.6	1, 400 727
Subtotal	328,1	- 135		1,700	e e	35	35	윙	1,300		1,040	178.0	11.217
Barley	348	1.5		303	8 %	225	15	290	ਜ	65	B	1.2	ជ
Corn Other (except rice)	741 741	10%	*	910	188	550	25	35 55	275 110	35 50	23. 88	35.7	355 125
Subtotal "	01971	- 158		37,488	165	88	킈	1,000	92		의 기	50.3	际
Rice	ជ	ਜ 1		70	٦			7	6		9.	1.4	177
Total grains	3,486	- 288		3,198	9517	왮	<u>57</u>	1941	1,707		3.379	210.5	3,022
Sugar (refined) Potatoes Meat	n3	44 . :		24 312	35	70		4.5	24 67		24 67	3.7	80 33
Beef and veal Pork Mutton and goat	£884	ო N 1 1		28 E					2% E		7.1. 2.6 1.8	6.7	ឧឧସ
Total meat	527	N		왥					847		웨	22.5	977
Fats and oils													
Butter Slaughter fata Vegetable oils	783	- 10		188			ಗತು	ಣವು	T 8:8		F 12 8	7 d 20	858
Total fats and oils	&I	គ <u>ា</u>		9			큐	킈	A		প্র	9 0	গ্র
Fish (landed weight) Milk (whole)	454 1454	н +		757		700	242	342	77		 21.2	0.0	৸ঀ
fotal calories per day													2, 45%

a. Does not include alcoholic beverages.

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S-B-G-R-B-F

Estimated Supply and Utilization of Food in Bulgaria g/ Consumption Year 1953-54 (Population: 7,424,000) Table 19

										Thousand Met	ric Jon	Thousand Metric Tons (Except Where Noted	ere Moted)
	1	αı	Э	. #	ιΛ	9	7	8	6	og	ជ	ង	ដ
						,			Utilization	8			
		Supply				Nonfo	Nonfood Uses			Food	Food Availabilities	lities	
		Net Prade	Change							Betraction	F A	Per Capita (Net)	ia (Net)
Commodity	Production	(+Import) (-Export)	1n Stocks	Total Supply	Seed and Waste	Feed	Industrial	Total	Total	Rate (Percent)	7 od	Xilograms per Year	Calories per Dey
Grains													
Wheat Rye	1,905	- 23 - 26		1,674 226	888	80	80	8్లో జ	1,294 158	85 85	1,100	148.2	1,421
Subtotal	252.2	- 251		1,900	370	斜	क्ष	8111	1,452		1,234	166.2	1,589
Barley	¹ 01	- 23		378	92.5	832	15	366	ង	65	89	1.1	97
Corn Other (except rice)	85	- 52		\$ 88 \$	፲ጵ፫	~%~	ជ	∯& 5	331	86.5	28 38	37.8 5.1	376 448
Subtotal	1,129	- 23		1,254	847	8	%]	78 ♣			387	3	라
Rice	†₹			5	m			m	ส	65	† 1	1.9	67
Total grains	3,530	- 332		3,178	বে	82	5	375	1,863		1,573	1.212	2,042
Sugar (refined) Potatoes Meat	8 %	ı,	8 +	£8.	30	δ		39	፠ጜ		8 4	1.7 6.9	ፈ ஐ
Beer and veal Pork Mutton and gost	% 1,1 8,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1	1 1 1 NNN		23 23 23					28.82		23 % 23	6.4.6 6.6.4.	77 65 6 33 Tr
Total meat	TOT	: শ		8					81		81	11.5	প্তা
Fats and oils													
Butter Slaughter fats Vegetable oils	35 EV			6 248			m-		ల లచి		బ లచి	44.6 44.6	288
Total fate and oils	প্ল			প্ল			의		3		외	6.2	2 117
Fish (landed weight)	, 100	Negligible		, ot	Negligible	8	198 c/	888	223		28	0.7 16.4	42
Total calories per day													2,341

a. Does not include alcobolic beverages.
 b. Includes 2,000 metric tons of oil consumed directly in 10,000 metric tons of oilseeds.
 c. 22 percent of production.

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Table 20

Forimated Supply and Orilization of Food in Bulgaria g/Consumption Year 1954-55 (Population: 7,522,000) $\underline{b}/$

Thousand Metric Tons (Except Where Noted) 10 11 12 13	food Availabilities lon Total Per Capita (Net) Net Milogram Calograe t) Food mer Year	·
Thousand Metra 9 10	1 5 5 5	el el
8 9	Total Gross	382 1,361 131 1,362 367 4,2 37 1,236 37 1,236 38 1,361 38 1,361 38 1,76 38 1
7	Nonfood Uses	38 38 20 12 25 25 25 25 25 25 25 25 25 25 25 25 25
5 6	A	6 23 25 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26
_a	e Total and Supply Waste	1,763 1,262 1,263 1,265
E a	Supply Net Trede Change (+Import) in (-Export) Stocks	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
~	Production	2,088 83,05 11,15 12,15 13,05 15,05
	Commodity Grains	Wheet State Stat

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P-B-C-R-B-P

Table 21

Estimated Supply and Utilization of Food in Greehoslovakia g/ Consumption Year 1933-37 Average (Population: 15,100,000)

										Thousand Metric Tons (Except Where Noted)	oric Tone	Except Wh	ere Noted)
	п	(N	m	-	٧	9	7	ဆ	6	oτ	7	ង	ដ
									Utilization	tion			
		Supply				Non	Nonfood Uses			Food	Food Availabilities	lities	
		Net Trade (+Import.)	Change	i E	Seed				ı	Extraction	Total	Per Capita (Net)	ca (Net)
Grains	Production	(-Export)	Stocks	Kladans	Waste	Feed	Industrial	Total	Gross	Rate (Percent)	Net Food	Kilograms Per Year	Calories per Day
Wheat Rye	1,589	& & ! +		1,569	206 195	196 85	9 10	38	1,157	76.3	883	58.5	.83 .83
Subtotal	3,223	+ 18		3,241		283	위	71.2	2,529	2	3.843	0.50	8 5
Barley Oats	1,100	82		1,050	130	595	580	1,005	45	0.0%	27	1.8	55 5-1 16
Corn Other (except rice)	25 23 23	4 125	*	28. 28.	a 1 1	রূপ ন	50	355	258	888 600	2 g t	8.4.6 8.4.6	∞ a'
Bubtotel	2.583	÷		2,638	300	1,923	30	2.523	; ;	2	~ ç	٠. ر د. د	<u>۰</u> ۱
Rice		† +		79		٦	Į	7	8		ય ક	27 °	워 :
Total grains	2,806	† †		5.940	102	2,205	330	3,236	2,704		3 %) ; <u>;</u>	£ 4
Sugar (refined) Potatoes Meat	9,787 907,6	- 21.7		350		12,658	8 ¹ 8	2,5%	2,320 2,200		320	21.2	225 279
Beef and veal Pork Mutton and goat	204 173 5	+ 15 Negligible		7,75				202 194	20t		20 4	13.5	545 201
Total meat Fats and oils	8	. 개·		, <u>101</u>				(10 °	^ <u>ವ</u>		¹ 63	26.6	٦ %
Butter Slaughter fats Vegetable oils Whale oil	2 th Q	+ + +		102			30 6	30 6	182		385	4 6 4 6 4 6	% 137
Total fats and oils	155	+ 137		9 6			10	2 2	ب ب ت		: ف	† · · ·	S.
Fish (landed veight) Milk (whole)	4,500	+ 18		1 28		- T	31 <u>5</u>		9 a §	•	2 2	1.4	35t
Total calories per day				:		3	27.		36,1		86,1	125.8	17 T
a. Does not include alcoholic beverages	beverages.												2,114

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a. Does not include alcoholic beverages.

Estimated Supply and Utilization of Food in Czechoslovekia g/ Consumption Year 1973-54 (Population: 12,826,000)

Table 22

										Thousand Met	ric Tons	Thousand Metric Tons (Except Where Noted)	re Noted)
	7	Ø	m	4	~	9	7	ω	6	70	#	ង	13
									Utilization	tion			
		Supply				Non	Nonfood Uses			Food	Food Availabilities	lities	
Commodity	Production	Net Trade (+Import) (-Export)	Change in Stocks	. Total Supply	Seed and Waste	Feed.	Industrial	Totel	Total	Extraction Rate (Percent)	Total Net Food	Per Capita (Net) Milograms Calori per Year per Da	Calories
Graine		,			;								
Wheat Rye	1,52 1,187	99		2,121 781,1	152	129 657	9 8	325 829	1,736 378 378	88	1,437 286	0.51 6.53	1,074 808
Subtotal	2,708	8 +		3,308	338	786	위	4521	2,154		1,723	134.3	1,282
Barley Oats	1,200	8 5		1,300	129 121	852 889 899 899	585	1,263	37	% %	80	7.7	52.
Other (except rice)	219	3		673	15	159	~	173	04	&	35	2.5	53
Subtotal	2,444	8 +		2,644	265	2,000	Z g Z	2.652	81		ଷ	6.4	1 2
Rice		+ 25		25				ı	25		25	1.9	19
Total grains	5,152	+ 825		2.277	[03	2,786	37.7	3,706	2,271		1,811	141.1	1,346
Sugar (refined) Potatoes Meat	5,069	- 176 - 8	+ 159	253	1,767	1,387	30€	3,458	253 1,603		1,603	19.7	240 240
Beef and veal Fork Mutton and goat	152 276 6	+ 17 + 10		169 286 6					169 286 6		169 2 3 6 6	22.3 0.5	28 183
Total meat Fats and oils	757	ان +		191					197		191	36.0	35
Butter Slaughter fats Vegetable oils Whale oil	X 863	+ ++	01 M + +	848~			10 35	10	8±5°		- 840~	۵. د ت ت ت ت	^및 도텔 3
Total fats and oils	껆	ह्य +	÷	225			귉	것	욁		욁	0· 1/1	8
Fish (landed veight) Milk (whole)	3,378	+ 20		3,378		439	/ā 644°T	1,888	1,490		1,490	1,6.2	6 191
Total calories per day													2,5%

a. Does not include alcoholic beverages.
b. On the basis of a milk-to-butter ratio of 23 to 1.

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中国の一部の一

S-R-C-B-E-T

Estimated Supply and Utilization of Pood in Czechoslovakia g/ Consumption Year 1954-55 (Population: 12,951,000)

Table 23

										Thousand Met	oric Tons	Thousand Metric Tons (Except Where Noted	re Noted
	7	æ	м	-3	5	9	7	8	6	70	a	12	13
`									Utilization	tion			
		Supply				Non	Nonfood Uses			Food	Food Availabilities	lities	
												Per Capita (Nrt)	(3rt)
Commodity	Production	Net Trade (+Import) (-Export)	Change in Stocks	Total	Seed and Vaste	Fe ed	Industrial	Total	Total	Extraction Rate (Percent)	Total Net Food	Kilograms per Year	Caloria per Day
Grains													
Wheat Rye	1,295	+ 726		2,021 1,071	25 ¹ .14 202	100 514	9 00	354 736	1,667	85 85	1,417	109.4 22.0	2,049 206 206
Subtotel	2,366	+ <u>T26</u>		3,092	944	ij	잂	7,000	2,002		1,702	131.4	7,255
Barley Oats	1,054 1,006	50 + +		1,254	77. 17.1	77.8 87.5	282	1,232	22	\$ 9	13	0.1	94
Corn Other (except rice)	236	+ 236	•	536 236	28	236 173	5	8,39	30	8	77	1.9	18
Subtotal	2,298	+		2,784	37.6	2,057	क्ष	2,720	3		3	3.4	25
Rice		+ 25		25					25		25	1.9	13
Total grains	199 1	+ 1,237		2,301	822	2,6T	317	3.810	2,091		1777.1	136.7	1,306
Sugar (refined) Potatoes Meat	578	- 183	+ 135	260	2,025	1,215	306	3,546	260 1,554		260 1,554	20.1	213 230
Beef and veal Pork Marton and goat	51.2 8	+ +		234 8					140 234 8		234 8	10.8	143 149 8
Total mest	뒭	£ +		382					392		302	3.5	767
Fats and oils													
Butter	.	. 		67			ć	Š	67		67	5.0	102
Langacer rats Vegetable oils Whale oil Vegetable oilseeds	7 %	++		, 4			35	35	5 6		1,8 v	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	151 10
Total fats and oils	997	82		722			শ্ৰ	킈	173		ij	13.9	흲
Fish (landed weight)	3,574	£ +		55 3,574		465	2,44,5	1,914	1,660		1,660	4.2 128.2	6 219
Total calories per day													17.75°

a. Does not include alcoholic beverages.

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SECRET

Estimated Supply and Utilization of Food in East Germany g/ Consumption Year 1935-38 Average (Population: 16,000,000)

Table 24

										Thousand Me	tric Ton	Thousand Metric Tons (Except Where Noted)	re Noted)
	н	αı	m	_	~	9	7	ဆ	6	10	11	75	13
									Utilization	tion			
		Supply				Nonf	Nonfood Uses				Food Avetlabilities	34+100	
												2000	
Commodity	Production	Net Trade (+Import) (-Export)	Change 1n Stocks	Total	Seed	i.	,		Total	Extraction Rate	Tetal	Kilograms Calori	Galories
Grains				-	D) CD	1000	Industrial	Total	02000	(Percent)	Food	per Year	per Day
Wheat Rye	1,590	- 350 - 215		1,240	162 230	27 767	wæ	22.0	1,030	5.5	Pá	#8.3	14.82
Subtotal	37.722	- 265		3,157	392	530	õ	- 2	200	2	3 3	4.65	527
Barley	1,078	5		Aco (1 8	3 ;	1	778	2007		1,654	103.4	1,002
Oats Corn	1,690	- 155	1	1,535	553,	1,339	£ 1	1,505	11 R	55	S 8	9.6	77.3
Other (except rice) b/	88	3	,	68	w 99	77 77 73	10	\$ 3				ì	4
Subtotal	3,016	- 180		2,836	325	2,155	314	2,791	4.5		۶		ć
Rice		0 1		3			1		1 5		4 :	<u> </u>	Ti.
Total grains	6.738	705		, 60	Ē	3	į		ş		9	2.5	25
Sugar (refined) .	Ŕ	1			4	707	a	375	2,290		17.64	107.8	1,053
Potetoes	14,225	§ 8 • •		385 13,625	3,100	000'9	925	10,025	3,600		385	24.1	256
Total meat d/	<u>615</u>	ଣ +		695					608		309	2	40 y
Fats and oils									1		7		9
Butter Slaughter fats	105	+ 25		130			15	£	130		130	8) (1)	159
atto atomasa.	ର ୍	+ 215		235			(6 .)	85	150		150	ນ ເ	229 229 239
Fish (landed wetght)	গ্ল :	+ 255		520			8	엙	1,20		8	26.3	272
Milk (whole)	006′†	+ + +		5,000,	σ	475	2,680	3,155	1,74		1.74	10.9	21.5
Total calories per day													7.70
													2,813

a. Does not include alcoholic beverages.
b. Wealin only.
c. 90 percent of raw value.
d. Beef, veal, pork, goat, and mutton.

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-S-E-C-E-E-P

Table 25

Estimated Supply and Utilization of Prox in East Germany g/ Consumption Year 1953-54 (Population: 17,900,000)

	-									Thousand Met	tric Tons	Thousand Metric Tons (Except Where Noted)	ere Noted)
	т	QI	ю	. 	2	9	7	80	6	07	ជ	ឌ	13
									Ut111zation	tion			
		Supply				Nonfe	Nonfood Uses			Food	Food Availabilities	lities	
Commodaty	Production	Net Trade (+Import) (-Export)	Change in Stocks	Totel Supply	Seed and Waste	Feed	Industrial	Total	Total	Extraction Rate (Percent)	Total Net Food	Per Capita (Net) Kilograms Calorio per Year per Da	ta (Net) Calories Per Day
Greios													
Wheat Rye	880 1,944	+ 153	58	1,082	107 279	26 350	8~	138 649	944 1,547	ጵኦ	717 371,1	40.1 65.7	\$ \$
Subtotal	2,824	ETE +	147 -	3,278	뗐	376	23	क्र	2,491		1,893	105.8	3,028
Barley Oats Other (except rice)	298 1,061 283	+ + + 25 25 22 22	5 7	831 1,097 315	885¥	, 8,8,8,	90	776 1,017 66	249 249	288	38 189 189	2.0	ងស្ម
Subtotel	3,942	[1 8 +	₩ 1	2,243	칪	1,588	임	1,852	힜		273	15.3	क्षा
Rice		30		8					8		20	1.7	7.7
Total grains	1,766	- 586	193	5,551	₩.	1,964	81	2,646	2,905		2,196	122.8	1,193
Sugur (refined) Potatoes Meat	675 004,01	300		375	2,892	4,200	8	7,592	2,608		375	20.9	88 ES
Reef and veal Purk Mutton and goat	127 153 20	.d 00 + +	- 7	43 8					<u>ವ</u> ಹ್ಮಿ 8		દૂર દુરુ	26.13 1.1	&వో "
Total meat	3	건 +	- 1	613					6119		619	34.5	24.7
Fats and oils													
Butter Slaughter fats Vegetable oils	91 101 56	+ + + + + + + + + + + + + + + + + + +		135			33.	33	135 106 133		135 106 133	7.87 2.64	138 138 138
Total fats and oils	248	+ 182		130			প্ত	প্ল	37		374	80.8	, 254
Fish (landed weight) Mik (whole)	95,4	8° + 1		1,638	7	79	2,548	3,012	139		139	7.8 90.8	겨춧
Total calories per day													2,558

a. Does not include alcoholic beverages.

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Estimated Supply and Utilization of Food in East Germany s/ Consumption Year 1954-55 (Population: 17,900,000)

Table 26

										Thousand Metric Tons (Except Where Noted)	tric Tone	Except Wh	ere Noted)
	н	O)	٣	-7	5	9	7	8	6	07	ជ	ដ	ដ
									Utilisation	tion			
		Supply				Juon	Nonfood Uses			Food	Food Availabilities	lities	
Commodity	Production	Net Trade (+Import) (-Export)	Change in Stocks	Totel Supply	Serd and Waste	Feed	Industrial	Total	Total	Extraction Rate (Percent)	Total Net Food	Fer Capita (Net) Kilograms Calorie per Year per Da	ta (Net) Calories per Day
Grains												`	
Wheat Rye	848 1,835	+ 153		1,985	143 354	25 367	, 15	173 736	828 1,249	88	772 1,074	39.8 6.03	382 561
Subtotal	2,683	ମ +		2,286	167	392	ଧ	8	2,077		1,786	8.8	£#8
Barley Oats Other (except rice)	535 1,043 270	+ + 1,92 + + 22 32 32		717 306,1 308	충취류	533 881 32	900	657 1,005 66	3888	886	38 1889 1889	2.2 2.0 10.5	ୡୄ୶ଝ
Subtotal	1,948	+ 236		2,084	컮	3,446	위	1,728	356		췽	15.0	139
Rice		+ 34		34.					34		34	1.9	19
Total grains	4.531	31		3077	ឡ	1.838	શ	2,637	2,467		480,3	1.911	101,1
Sugar (refined) Potatoes Meat	616 007,212	- 300		316 11,550	3,195	5,600	8,	9,295	316 2,255		316	17.7	188 242
Meef and veal Pork Mutton and goat	107 106 20	+ 15	<u>-</u>	1,22 1,24 20					122 424 20		122 124 20	6.8 23.7 1.1	27 195 3
Total meat	233	의 +	T +	8					38		38	31.6	23
Fats and oils													
Mutter Slaughter fats Vegetable oils	488	+++		<u> </u>			9, 8	, %8	131 105 78		131 105 78	25.9	143 264 701
Total fats and oils	222	+ 135		鮗			31	91	큓		켍	17.6	뛾
Fish (lended weight) Milk (whole)	% 4,752	+ 100		160	80	475	2,548	3,023	152		1,729	8.5 96.5	৸ঽ
Total calories per day													2,308

a. Does not include alcoholic beverages.

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Table 27

Estimated Supply and Utilization of Food in Hungary g/ Consumption Year 1933-37 Average (Population: 8,942,000)

										Thounnd Met	eric Tons	Thounand Metric Tons (Except Where Noted)	re Noted)
	τ	CV	m	. #	~	9	7	60	6	10	п	ជ	13
									Utilization	tion			
		Supply				Nonfo	Nonfood Uses			Food	Food Availabilities	lities	
		\$ P	, ,		Speed					Exteraction	Total	Per Capita (Net)	a (Net)
Commodity	Production	(+Import)	Stocks	Total Supply	Waste	Feed	Industrial	Total	Total	Rate (Persent)	You.	Kilograms per Year	Calories per Day
Grains													
Wheat Rye	2,206 727	 95 48		1,702	345 5.15	25	CN.	372 130	2,330	ସସ	9998 387	111.6 13.3	1,113 414
Subtotal	2,933	- 285		2,348	9	의	ત્યા	202	91817		1,385	154.9	135.1
Berley	631	→ 11 -		4179	8.	200	6/	539	15	65	30	1.1	30
Oats Corn Other (except rice)	279 2,136 8	1 + 1		2,163 5	910	1,928	75	2,113 5	2	85	[‡] 3	B. 4	4.8
Subtotal	3.054	cv)		3,052	172	2,662	ಪ	2,987	31		23	5.5	R
Rice		+ 50		80					8		20	2.5	ន
Total grains	5.987	- 267		5,420	Į.	2,702	% I	3,489	1.231		3,4,5	163.0	7,607
Sugar (refined) Potatoes Meat	2,135	 28		2,075	004	515	8	975	1,100		2,100	10.1	236
Deef and veal Pork Mutton and goat	75 195 10	- 15		60 175 10					60 175 10		60 175 10	6.7 19.6 1.1	27 161 3
Total meat	8	- 35		345					24.5		245	27.4	ান
Fats and oils													
Butter Slaughter fata Vegetable oils Whale oil	8 8 21 8 21	11++		31 81 4			7 70		98 97 A 4		25. 20. 21. 21.	ह.स्या १.५० १.५०	33 31 10
Total fats and oils	027	• 16		157			궒		140		11.0	37.5	335
Fish (landed weight) Milk (whole)	1,700			7,700		150	700	850	350		950	0.8 95.1	156
Total calories per day													2,633

s. Does not include alcoholic beverages.

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S-E-R-D-E-S

Estimated Supply and Utilization of Food in Hungary a/ Consumption Year 1953-54 (Population: 9,654,000)

Table 28

				,						Thousand Metric Tons (Except Where Noted)	r'c Tons	(Except Whe	re Noted)
	τ	2	m	-#	2	9	7	ω	0	70	7	12	23
								D	Utilization	uo			
		Supply				Nonfood Uses	Uses			Food	Food Availabilities	lities	
		Net Trade	Change	£ 50	8				Total	Extraction Rate	Total	Per Capita (Net) Kilograms Calori	Calories
Commodity	Production	(-Export)	Stocks	Supply	and Waste	Feed	Industrial	Total	Gross	(Percent)	Yord	per Year	Dur Duy
Grains Wheat	1,862	- 65		1,797,1	350	8.2	N	014	1,387	88	011,1	2.5.0	1,103
Re	9 69	- 65		200	i 9	; 8	Q	595	1,801	}	1	149.3	1,424
Berley	# §		*	572	5	1 5	ا ت	1 53	ធ	3	2	0.1	6
Oats Corn Other (excent vice)	1,768	10 52 PG + + +		276 1,743 125	3 E ~	230 1,510 102	ደ	87.8 1,693 101	55	పత	ij i	4.4	13
Subtotal	2,656	영 +		2,73	<u>8</u>	2,293	33	2,635	ଥା		छ	1.3	D)
Rice	37	с і +		39	5			2	ž	65	53	2.3	23
Total grains	121.2	≓1		5,123	752	2,392	୍ଧା	3,205	1,918		1,530	128.2	1,514
Bugar (refined) Fotstoes Meat	238 1,44,5	1 + 1 B	+ 13	198 1,448	485	28	ଷ	392	198 653		198 653	20.5 67.6	217
Beef and veal Fork Matton and gost	134 134	- 5		124 124 5					1,1 1,2,4 5		यं वै	4.2 8.24 0.5	77 205 1
Total meat	385	- 35		027					<u>170</u>		0 <u>7</u> 7	27.5	123
Fats and oils													
Butter Slaughter fats Vegetable oils	388 388	+ 1		49 <i>F</i>			10 15	10	たたこ		2.5 #	4.04 4.04	27 130 107
Total fats and oils	귂	ন '		136			55	গ্ল	3730		011	5.51	155
Fish (landed weight)	4 061,1			4,190	Negligible	154	308	1791	1, 726		726	75.2	751
Total calories per day													2,353

a. Does not include alcoholic beverages.

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S-B-C-R-E-T

Table 29

Estimated Supply and Utilization of Food in Hungary g/ Consumption Year 1954-55 (Population: 9,749,000)

										Thousand Mrtric Tons (Except Where Noted)	oric Tons	(Except Wh	re Noted)
	ч	C)	ю	.	٧.	9	7	8	9/	10	ជ	귉	ដ
									Utilization	tion			
		Supply				Nonf	Nonfood Uses			Food	Food Availabilities	lities	
		Net Trule	Chunge		Seed					Extraction	Total	Per Capita (Net)	a (Net)
Commodity	Production	(+Import)	in Stocks	Total	Auste Waste	Feed	Industrial	Total	Tetall Grouss	Rate (Percent)	You.	Kilogram per Year	Calories Per Day
Grains													
Wheat Rye	1,452 444	+ 1,20		1,872	ដូដ	2.3	∞ ∾	364 157	1,506	શ ક	1,865	23.6	220
Subtotal	1,8%	+ 1-20		2,316	1,22	:83	-=1	쥣	1,725		3,436	14.7.3	1,106
Barley Oats	457	,		1457	88 7	343	6	0.50	17	65	я	7:7	70
Corn Other (except rice)	1,793	+ 36		1,829	139	1,55 1,55 1,50 1,50 1,50 1,50 1,50 1,50	20	1,1 8	56	\$8	ደ	5.1	נג
Subtotal	2,522	위 +		2.558	273	2,144	77	2,1.92	গ্ৰ		હ	6.2	61
Rice	O 1	4 30		ጽ	9			9	#	65	&	3.0	33
Total grains	854,4	994 +		4.924	707	2,239	ଔ	3,000	1,915		325,1	156.5	1,497
Sugar (refined) Potatoes Meat	238 1,548	. 31		207	0Z 7	372	80	977	207 737		207 737	21.2	225 145
Beef and veal Pork Mutton and goat	15.3 6	0110		13.55 6					13.85 6.00		45. 85. 9	ر 4. نار 5. نار	a ង ។
Total meat	503	T -		367					957		961	30.1	141
Fats and oils													
Butter Slaughter fats Vegetable oils	14 67 50	ਕ +		45 57 57			10	20 25	35.25		3.5% 3.6%	3.50	22.27 8
Total fate and oils	ដា	⊣1 +		132			25	kΊ	101		707	10.9	241
Fish (landed weight) Milk (whole)	, 311,1			3,115		345	308	453	, 662		799	6.79	" an
Total calories per day													2,362

a. Does not include alcoholic beverages.

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S-E-0-R-E-E

Table 30

Estimated Supply and Utilization of Food in Poland g/ Consumption Year 1934-38 Average (Population: 32,000,000)

										Thousand N	tric Ton	Thousand Metric Tons (Except Where Noted)	here Noted)
	а	cvi	m	.	5	9	7	æ	6	70	ដ	द्र	13
									Utilization	lon			
		Supply				Nonfoc	Nonfood Uses			Food	Food Availabilities	ities	
Commodity	Production	Net Trade (+lumport) (-Export)	Change in Stocks	Total Supply	Seed and Waste	Feed	Industrial	Total	Total	Extraction Rate (Percent)	Total Net Food	Per Capita (Net) Kilograms Calori per Year per Da	ta (Net) Calories per Day
Oraina													
Wheat Rye	1,965	- 3,050		1,880 5,800	300	65 750	15	380	3,900	27 25	1,125 3,081	35.2 96.3	35 126
Subtotal	8,815	- 1,135		7,680	7,400	315	ঙা	2,280	5,400		7,206	131.5	1,272
Barley Outs Corn Other (except rice)	2,830 60 60 195	55 SS 55 55 55 55 55 55 55 55 55 55 55 5		2,530 2,530 85 495	370 370 55	2,145 60 305	125	925 2,515 75 360	410 115 110 135	3888	245 88 89 99	7.7 0.3 3.1	ნოოგ
Subtotel	51013	- 570		4,445	S	3,110	135	3.875	570		361	₹-TT	ळ्
Rice		5 1 7 +		5 †7				4	45		54	ተ.ተ	7.
Total grains	13,830	- 1,660		12,170	2,033	3,925	900 800	6,155	6,015		4,612	2441.3	1,395
Sugar (refined) Potatoes Meat	38,000	- 410		37,070	001,11	13,470	2,500	27,070	10,000 10,000		10,000 00,000	312.5	162 599
Arrf and veal Pork Mutton and goat	325 625 15	- 160		280 465 15					88 29 21 21		280 465 15	0.8 14.5 0.5	35 119
Total meat	365	- 205		760					গ্র		81	83.8	325
Fats and oils							,						
Butter Slaughter fats Vegetable oils	170 200 30	- 15 - 15 + 85		155 185 115			9,9	28	155 155 35		155 155 85	44 8 8 6 F	\$ 52 %
Total fats and oils	3	+		4.55			81	81	395		395	12.3	%
Fish (landed weight) Milk (whole)	150	300		150 9,900		1,300	006,4	6,200	3,700		3,700	4.7 115.6	961 961
Total calories per day													2,775

a. Does not include alcoholic beverages.

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S-E-O-B-ALIE

S-B-C-R-E-T

Table 31

Estimated Supply and Willization of Food in Poland s/ Consumption Year 1953-54 (Population: 26,506,000)

				do v						Thousand Met	oric Tons	Thousand Metric Tons (Except Where Noted)	re Noted)
	٦	8	3	_#	5	9	7	တ	6	oq	я	ส	13
									Utilization	10n			
		Supply				Nonf	Nonfood Uses			Food	Food Availabilities	lities	
Compodity	Production	Net Trade (+Import) (-Export)	Change 1n Stocks	Total Supply	Seed and Waste	Feed	Industrial	Total	Total	Extraction Rate (Percent)	Total Net Food	Per Capita (Met.) Kilograms Caloria Per Year Per Day	Calories Der Day
Grains													
Wheat Rye	1,664 5,279	+ 250 + 235 .		1,914	310 1,046	924	15 65	375 2,035	1,539 3,479	88	2,231	105.0	981. 281.
Subtotal	6.943	+ 1485		7,428	3,356	캢	ଛା	2,410	5.018		†10° †	127.4	1,426
Barley Outs Other (except rice)	1,179 2,093 264			1,079 2,143 284	194 400 57	758 127,1 711	8 9	2.0,1 121,5 181	∺88 8	288	858	3.0	გოფ
Subtotel	3,556	⋈		3,506	627	3,296	00T	3,347	159		677	3.4	껡
Rice		4		R					8		ß	1.9	23
Total grains	10,422	+ 1435		10,984	700.2	37.570	001	2.757	7.227		4,183	357.8	7.48T
Sugar (refined) Pointoes Meut	995 30,375	- 435	30	530 30,375	9,756	929'71	2,000	23,432	530 6,943		530 6,9 1 3	261.9	212 202 203
Rewf and veal	133 86 59	د - ويد -		128 26 180					827 98 98 93		128 88 88 84	4.8 0.1 1.81	19 3 1 ¹ 49
Total meat	151	व्या -		634					#55		159	23.2	대
Fats and oils													
Butter Slaughter fats Vegetable olls	20 20 20 20 20 20 20 20 20 20 20 20 20 2	+ 1 1		104 187 79			23.83	8 8	104 167 56		167 167 8	พ.ค. ช ช่ามน์	ಕ್ಟಚ
Total fats and oils	11.	7 -		310			FT FT	শ্ৰ	327		327	इ.स	<u>8</u>
Fish (landed weight) Milk (whole)	90 9,010	8		70 9,010	≉	901	3,219 b/	4, 120	99°,		886,4	2.5 184.5	3F3
Total calories per day													2,951

a. Does not include alcoholic beverages.

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S-BC-K-E-T

Table 32

Estimated Supply and Utilization of Food in Poland g/ Consumption Year 1954-55 (Population: 27,020,000)

										Thousand Metric Tons (Except Where Noted)	Lric Tone	(Except Whe	re Noted)
	н	81	m	4	5	9	7	8	6	10	я	12	13
									Utilization	1on			
		Supply				Nonf	Nonfood Uses			Food	Food Availabilities	lities	
		Net. Trade	Change		Seed					Extraction		Per Capita (Net)	a (Net)
Commodity	Production	(+Import)	in Stocks	Total Supply	Haste	Feed	Industrial	Total	Total	Rate (Percent)	Food	Kilograms per Year	Calories per Day
Grains													
Wheat	1,939	+ 530 + 315	+ + 200 200 200 200	1,969	349	1,203	15 65	414 2,330	1,555	88	2,244	,6.0 110.0	1,028
Subtotel	7.871	+ 845	+ 702	8,014	1,411	1,253	윎	2.744	5.270		4,216	156.0	1,469
Barley Outs Other (except rice)	1,00,1 2,093 111	- 100		2,093 336	8,5%	676 1,706 163	88 20 10	2,071 2,071 236	, 18,85 18,78	698	82.28	40w 040	o v &
Subtotal	3,498	21		3,423	618	3,545	સ	3,261	791		221	3.4	의
Rich		+ 50		8				4			8	1.9	19
Total grains	ज़्रा प	+ 320	705 †	18, 11	2,029	3,798	ध्य	6,005	24 7		7,386	162.4	1,530
Sugar (refined) Potatoes Meat	855 30,375	- 315		30,375	9,756	929,11	2,000	23,432	546 6,943		546 6,943	20.0	212 493
Boyf and Veal Pork Mutton and goat	139 595 32	- 5 211 -		50 gr					134 480 32		134 180 32	5.0 17.8 1.2	77 7,16 7,10 1,10 1,10 1,10 1,10 1,10 1,10 1,10
Total meat	웵	०स -		979					919		99	24.0	व्य
Fats and oils													
Butter Sluughter fats Veretable oils Vegetable oilseeds	207 50	500-		104 187 70			93.80	23	104 167 14		104 167 14	3.8 4.7	132
Total fats and oils	쮨	7		361			স্	킈	318		318	2.11	248
Fish (lended weight) Milk (whole)	90,010	50		70 9,010	<i>#</i>	901	3,219 5/	4,120	99 98,4		8 86, ⁴	2.4	307
Potal talories per day													2.963

a. Does not include alcoholic beverages.

b. On the basis of a milk-to-butter ratio of 29 to 1.

Table 33

Estimated Supply and Utilization of Food in Rumania g/ Consumption Year 1933-37 Average (Population: 15,200,000)

										Thousand Me	tric Jon	Thousand Metric Tons (Except Where Noted)	ere Noted)
	ч	α	33		5	9	7	8	6	ОТ	а	टा	13
									Utilization	tion			
		Supply				Non	Nonfood Uses			Food	Food Availabilities	lities	
Composity	Production	Net Trede (+Import) (-Export)	Change 1n Stocks	Total	Seed and Waste	Feed	Industrial	Total	Total	Extraction Rate (Percent)	Total Net Food	Per Capita (Net) Kilograms Calorio Per Year per De	ca (Net) Calories
Urains Wheat Rye	2,325	- 235		2,090	510 35	25.5	15	55	1,540	£.8	1,155	76.0	759
Subtotal	2,480	- 235		2,245	37	위	ដ	83	1,655	}	1,247	92.1) (B) §
Barley Oats	88	 84		5774	155	00†	82	575	30	65	8	1.3	គ្នា ន
corn Other (except rice)	3,980 80 80	- 260	*	3,640	270	1,000	54	1,315	2,325	89 89 89	1,976	130.0	1,293
Subtotal	3233	- 366		4,869	260	1,869	59	404.5	2,375		2,012	132.4	315
Total grains	27.72	+ . લ ર્થ		12 7,126	1,105	1,899	Ş		12		21	0.0	6) (
Sugar (refined) Potatoes Meat	1,300	+		1,300	325	175		8	55.8		F 82	4.9 52.6	ह्या है. इ.स.
Beef and veal Pork Mutton and gost Total mest Fats and oils	295 295 295	. 25		85 135 50 <u>270</u>					85 135 50 270		270 270	5.6 8.9 3.3 17.8	8 E S S S S S S S S S S S S S S S S S S
Butter Slaughter fats Vegetable oils	10 45 25	· + ~ 3		299			<i>∾</i>	nv	35		35	P. 6.4	4 5°
Total fats and oils	ଛା	위 +		81) OT	, 01	3 &		તે ફ	, , ,	ደ ነ
Fish (landed weight) Milk (whole)	10,400	+		21, 00 ⁴ ,1		336	251	1 55	1 2 E		31 22	7 0.5	AT 13
Total calories per day a. Does not include alcoholic beverage.	Peverages								5		<u>}</u>	6:00	2,1608

a. Does not include alcoholic beverages.

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S-E-C-K-E-E

Table 34

Estimated Supply and Utilization of Food in Rumania <u>n</u> Consumption Year 1953-54 (Population: 17,082,000)

										Thousand Met	tric Tons	Thousand Metric Tons (Except Where Noted)	re Noted)
	7	≈ અ	м	4	2	9	7	8	6	07	7	ឌ	13
									Utilication	ation			
•		Supply				Nonf	Nonfood Uses			Food	Food Availabilities	littes	
		Net Trade	Chongs		See					West to the state of the state	ě	Per Capita (Net)	A (Net)
Commodity	Production	(+Import) (-Export)	1n Stocks	Total Supply	Maste	Feed	Industrial	Total	Total	Rate (Percent)	Food Pood	Kilogrums per Year	Calories per Day
Grains													
Wheat Rye	2,191 126	- 279		1,912 116	494 31	77	13	531 32	1,381 91	9,59 8,59	1,17"	68.7	659
Subtotal	2,317	- 389		2,028	525	গ্ৰ	ជា	52	3,465		1,24.2	72.9	869
Barley	28	- 20		370	907	22.8	50		2¢	65	17	1.0	σv
Corn Other (except rice)	2,570	9		2,564	1227	481 1821	54	261	2,003 21	88	1,993 17	105.5	1,040
Subtotal	3,423	%I •	*	3,397	172	200	ঞ	1,347	2,050		1.937	2.701	1,058
Rice	93			56	٣			٣	23	65	ध	6.0	S
Total grains	2,766	- 315		5,451	1.003	832	ଥ	1.91	3,533		3,007	181.7	1,765
Sugar (refined) Potatoes Meat	%&	30		990	310	7,7	2	359	66 44.1		T1/1	3.9 25.8	τη τη
Beef and veal Fork Mutton and goat	78. 144 35	25 25 5		88 gil 88					66 119 30		68 119 50	7.0	38°
Total meat	257	의		212					217		113	12.8	গ্ৰ
Fats and oils													
Butter Slaughter fats Vegetable oils	€ 930 930 930 930 930 930 930 930 930 930	& +		186			5	20	10 25 67		10 25 67	0.6 1.5 3.9	21 E 46
.Total fats and oils	87	င္သာ၊ +		777			37	57	102		100	6.0	138
Fish (landed weight) Milk (whole)	20 1,790	Negligible		2,790	н	124	220	249	19 γ,τ,τ		19	11.11	2011
Total calories per day			•										2,184

a. Does not include alcoholic beverages.

b. Includes the oil equivalent of 10,000 metric tons of oilseeds consumed directly.

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S-E-C-R-B-B-

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Table 35

Estimated Supply and Utilization of Food in Rumania g/Consumption Year 1954-55 (Population: 17,309,000) $\underline{b}/$

. 1	~	α	٣	.	5	9	7	60	6	OT.	п	13 12 13	13
									UE1111	Utilization			
		Supply				Non	Nonfood Uses			Food	Food Availabilities	Ulties	
Produ	Production	Net Trade (+Import) (-Export)	Change 1n Stocks	Total Supply	Seed and Waste	Feed	Industrial	Total	Total	Extraction Rate (Percent)	Total Net Food	Per Capi Kilograms per Year	Per Capita (Net) Lograms Calories r Year per Day
2,058 051	& &	+ 211		, 269 120	ಜ್ಞ	7 5	13	540	2,729	85	1,470	8. 6.4	814
2,178	티	TT2 +		2,389	153	53	គ	27.5	t	3	1,545	89.2	₹ 8
u, iu	85	8		340	88	232	50	340					1
2, 98, 38, 86,	18%	- 154		2,736 38 38	257	8%	54	312 698 37	2,038	8	1,834	106.0	1,045
3,600	81	127 -		3,426	127	895	গ্ৰ	1,387			1.834	106.0	, de
7	841			941	5		4	5	£.	65	82	1.6	, Y
5,826	% 1	∏		5,863	996	320	阳	1,964	3,898		3,407	196.8	3 19 1
ಸಹ	101 800	m +		104 800	8	82	۲	359	107		10t 14	6.0	45
1-11 E	78 1144 35	 		8948					82 U.S		8,978	40,5	†1 5 *
λ)	251	₽ .		207					ा जि		202	0.51	' ধ
1 m/o	33 33 30 31	۲ .		05 83 68 83			200	5	25 25 25		888	31.0	385
्य १		- 1		201			17	37	ফ্র		ᅜ	5.0	न
1,75		negalgante		1,790		427	220	249	20		1,143	66.0	108
Does not include alcoholic beverages.	ges.												2,329

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S-B-C-R-B-T

Estimated Supply and Utilitation of Food in Communist China a/* Consumption Year 1991-38 Average (Population: 473,700,000)

Table 36

										Thousand M	etric Tone	Thousand Metric Tons (Except Where Noted)	re Noted)
	н	αı	m	.#	٧.	9	7	ω	6	01	ជ	ឌ	13
									Utilization	tion			
		Supply				Nonf	Nonfood Uses			Food	Food Availabilities	ities	
Commodity Wheat Other Grains (except rice)	Production 22,763	Net Trade (+Import) (-Export) + 555	Change in Stocks	Total Supply 23,318	Seed and Waste 2,936	Feed 217	Industrial 496	Total 3,649	Total Gross 19,669	Extraction Rate (Percent) 85	Total Net Food 16,719	Milograms Calori Per Year per De 35-3 338	Calories Der Day 338
Barley Onts Cons Millet Proso-millet Proso-millet Maclians Miscellaneous grains Subtotal other grains	7,871 891 8,627 9,778 1,580 1,365 11,365 1,435	269 269 269 269 269		7,870 8,77 8,514 9,592 11,580 11,156 1,399	944 112 158 159 159 159	2,755 280 780 665 142 1,052	551 696 111 12,625 861 861	1,250 334 2,242 1,925 3,457 1,020	3,680 543 6,272 6,272 1,215 7,695 7,695 379	888888	2,896 272 6,272 6,900 6,900 6,900 6,900 303	6.1 13.2 14.6 14.6 0.6	55, 85 E 4 E 5 E 5 E 5 E 5 E 5 E 5 E 5 E 5 E
Nonglutenous Glutenous Subtotal rice Total grains Potetoes	46,246 4,469 207.03 210,211	+ + + + +		47,065 4,469 52,534 115,840	2,745 270 3,015	2,831	4,56 2,29 1724 1,284,1	3,201 538 3,739 20,981	43,864 3,931 47,795 94,859	7°C	32,459 2,752 35,211 76,596	68.5 5.8 74.3 161.6	674 57 731 1315
Sweet White Total potatoes Cane sugar	18,526 2,962 21,488 400	+ હ્ય જ્યા જે		18,523 2,941 21,464 1,050	2,979	3,705 267 3,972	926 171 100.1	7,610 1,099 8,709	10,913 1,842 12,75 <u>5</u> 1,050		10,913 1,842 12,755 1,050	83 83 84 84 84 84 84 84 84 84 84 84 84 84 84	ଓ⊱ ଛାଅ

* Footnote for Table 36 follows on p. 61.

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S-B-G-B-E-T

S-E-C-R-E-T

Table 36 Estimated Supply and Utilization of Food in Communist China a/ Consumption Year 1931-38 Average (Population: 473,700,000) (Continued)

										Thousand M	etric Ton	s (Except Wi	ere Noted)
	ı	2	3	14	5	6	7	8	9	10	11	12	13
									Utiliz	ation			
		Suppl:	<u>/</u>			Non	food Uges			Food	Availabi	lities	
		Net Trade	Change		Seed					Extraction	Total	Per Capi	ta (Net)
Commodity	Production	(+Import) (-Export)	in Stocks	Total Supply	and Waste	Feed	Industrial	Total	Total Gross	Rate (Percent)	Net Food	Kilograms per Year	Calories per Day
Pulses and oilseeds											1		
Vegetable oilseeds Broad beans Field peas	17,708 3,018 3,190	- 2,196 - 86		15,512 2,932 3,190	1,930 386 419	602 797	8,004 60 191	10,536 446 1,407	4,976 2,486 1,783		4,976 2,486 1,783	10.5 5.2 3.8	10 ⁴ 49 36
Fruits and vegetables												55.0	35
Meat													
Beef and veal Buffalo Pork Mutton and lamb Goat Poultry	629 436 3,873 171 159 402	- 7 - 27 - 4		622 436 3,846 167 159 402		4			622 436 3,846 167 159 402		622 436 3,846 167 159 402	1.3 0.9 8.1 0.4 0.3 0.8	6 45 2 1 4
Total meat	5,670	- <u>38</u>		5.632					5,632		5,632	11.8	62
Eggs	756	- 130		626					626		626	1.3	5
Fish (landed weight)	3,000	+ 53		3,053					3,053		3,053	6.4	n
Pats and oils													
Vegetable oils Pork fat	1,601 1,032	- 113		1,488 1,032			190		1,298 1,032		1,298 1,032	2.7	65 49
Total fats and oils	2,633	- 113		2,520			190		2,330		2,330	4.9	124
Total calories per day													2,067

a. Does not include alcoholic beverages. The general methodology used in the derivation of estimates in this table is described in detail in source 29/. Revisions of the estimates given in that source are described in Appendix B, p. 67, below.

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Table 37

Estimated Supply and Utilization of Food in Communist China a/*
Consumption Year 1953-54
(Population: 573,200,000)

										Thousand M	etric Tone	s (Except Wh	ere Noted)
	1	. 2	3	lų.	5	6	7	8	9	10	11	12	13
									Utiliza	ation			
		Suppl	У			Non	ood Uses			Food	Availabi	Lities	
										-	m	Per Capi	ta (Net)
Commodity	Production	Net Trade (+Import (-Export	Change in Stocks	Total Supply	Seed and Waste	Feed	Industrial	Total	Total Gross	Extraction Rate (Percent)	Total Net Food	Kilograms per Year	Calories per Day
Wheat Other grains (except rice)	22,325	- u		22,314	3,470	217	479	4,166	18,148	90	16,333	28.5	273
Barley Oats Corn Millet Froso-millet Kooliang Miscellaneous	7,338 1,039 10,331 9,494 1,612 9,988 1,300	- 2 - 46 - 250		7,338 1,037 10,285 9,244 1,612 9,738 1,300	937 142 862 580 121 742 144	2,568 260 758 608 145 834	514 1,371 736 112 1,462 780	4,019 402 2,991 1,924 378 3,038 924	3,319 635 7,294 7,320 1,234 6,700 376	80 50 100 90 90 90	2,655 318 7,294 6,588 1,111 6,030 301	4.6 0.6 12.7 11.5 1.9 10.5 0.5	42 6 124 108 18 99 5
Subtotal other grains	41,102	- 548		40,554	3,528	5,173	4,975	<u>13,676</u>	26,878		24,297	42.3	402
Rice													
Nonglutenous Glutenous	45,663 2,536	- 610		45,053 2,536	2,786 154		456 152	3,242 306	41,811 2,230	82 78	34,285 1,739	59.8 3.0	588 30
Subtotal rice	48,199	- <u>610</u>		47.589	2,940	_	<u>608</u>	3,548	44,041		36,024	<u>62.8</u>	618
Total grains	111,626	- 1,169		110,457	9,93)	5.390	6,062	21,391	89,067		76,654	<u> 133.6</u>	1,293
Potatoes													
Sweet White	28,673 2,362			28,673 2,362	4,588 614	5,735 165	1,434 142	11,757 921	16,916 1,441		16,916 1,441	29.5 2.5	78 5
Total potatoes	31,035			31,035	5,202	5,900	1,576	12,678	18,357		18,357	32.0	<u>83</u>
Cone nugar	390	+ 92		482					482		482	0.8	8

^{*} Footnote for Table 37 follows on p. 63.

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Table 37

Estimated Supply and Utilization of Food in Communist China a/ Consumption Year 1953-54 (Population: 573,200,000) (Continued)

											Thousand Me	tric Tons	(Except Whe	re Noted)
		2		3	4	5	6	7	8	9	10	11	12	13
	1.	2		,	·	•				Utiliza	tion			
							Noni	ood Uses			Food	Availabi	lities	
		St	upply										Per Capi	ta (Net)
	Production	Net T (+Imp (=Exp	ort)	Change in Stocks	Total Supply	Seed and Waste	Feed	Industrial	Total	Total Gross	Extraction Rate (Percent)	Total Net Food	Kilograms per Year	Calories per Day
Commodity	Production	7-14-15	<u> </u>											
Pulses and oilseeds					14,505	1,859	543	6,626	9,028	5,477		5,477 2,513	9.6 4.4	100 42
Vegetable oilseeds Broad beans	16,175 2,993	- 1,	670		2,993	420 406	776	60 186	480 1,368	2,513		1,737	3.0	28
Field peas	2,993 3,105				3,105	400	110		,-				55.0	35
Fruits and vegetables														
Meat										685		685	1.2	5
Beef and veal	691 410	-	6		685 410					1,10 4,042		410 4.042	0.7 7.0	3 40
Buffalo Pork	4,150	-	108		4,042					127		1.27	0.2	1
Mutton and lamb	128	-	1		127 236					236		236 319	0.4	3
Goat	236 329	_	10		319					319				-
Poultry		_	125		5,819					5,319		5 <u>.819</u>	<u>10.1</u>	53
Total meat	5.944	-			687		4			687		687	1.2	5
Eggs	750	-	63		-					3,591		3,591	6.3	17
Fish (landed weight)	3,600	-	9		3,591					. 3,7,72				
Fats and oils										1,031		1,031	1.8	24.24
Vegetable oils	1,326	-	195		1,131			100		1,093		1,093	1.9	43
Pork fat	1,100	-	7					100		2,124		2,124	3.7	<u>87</u>
Total fats and oils	2,426	-	202		2,224			100					259.8	
Total kilograms per yea	r													1,71.5
Total calories per day														

a. Does not include alcoholic beverages. The general methodology used in the derivation of estimates in this table is described in detail in source 29/. Revisions of the estimates given in that source are described in Appendix B, p. 67, below.

Table 38

Estimated Supply and Utilization of Food in Communist China a/*

Consumption Year 1954-55

(Population: 578,900,000)

											Thousand M	etric Ton	s (Except Wh	ere Noted)
	1		2	3	4	5	6	7	8	9	10	n	12	13
										Utiliz	ation			
			Supply				Non	food Uses			Foo	l Availab	ilities	
		N - 4	Trade	Change		Seed					Extraction	Total	Per Capi	ta (Net)
Commodity	Production	(+I	mport)	in Stocks	Total Supply	and Waste	Feed	Industrial	Total	Total Gross	Rate (Percent)	Net Food	Kilograms per Year	Calories per Day
Wheat Other grains (except rice)	24,825	-	זז		24,814	3,545	241	532	4,318	20,496	90	18,446	31.9	305
Barley Oats Corn Millet Proso-millet Kaoliang Miscellaneous	7,356 1,078 10,951 9,826 1,546 10,216 1,300	-	2 40		7,356 1,076 10,911 9,826 1,546 10,216 1,300	938 143 881 590 119 748 144	2,575 270 804 629 139 858	515 1,453 762 108 1,496 780	4,028 413 3,138 1,981 366 3,102 924	3,328 663 7,773 7,845 1,180 7,114 376	80 50 100 90 90 90 80	2,662 332 7,773 7,061 1,062 6,403 301	4.6 0.6 13.4 12.2 1.8 11.1 0.5	42 6 131 115 17 103 5
Subtotal other grains	42,273	-	42		42,231	3.563	5,275	5.11.4	13,952	28,279		25,594	44.2	419
Rice														
Nonglutenous Clutenous	37,680 2,081	-	665		37,015 2,081	2,546 140		377 125	2,923 265	34,092 1,816	84 80	28,637 1,453	49.5 2.5	487 25
Total rice	39.761	-	<u>665</u>		39,096	2,686	4	502	<u> 1,188</u>	35,908		30,090	52.0	512
Total grains	106,859	-	718		106,141	2.72L	5,516	6,153	21,458	84,683		74,130	128.0	1,236
Potatoes														
Sveet White	25,732 2,362				25,732 3,362	4,117 614	5,11.6 165	1,297 142	10,550 921	15,182 1,441		15,182 1,441	26.2 2.5	70 5
Total potatoes	28,094				28,094	4.731	5.311	1,420	11,471	16,623		16,623	28.7	72
Cane sugar	440	+	68		508					508		508	0.9	10

^{*} Footnote for Table 38 follows on p. 65.

Table 38 Estimated Supply and Utilization of Food in Communist China a/ Consumption Year 1954-55 (Population: 578,900,000) (Continued)

•										Thousand Me	etric Tone	Except Wh	ere Noted)
	1	2	3	4	5	6	7	8	9	10	n	12	13
				-					Util12	tion			
		Supply				Non	Tood Uses			Fox	1 Availab	llities	
										_		Per Capi	ta (Net)
		Net Trade (+Import)	Change in	Total	Seed and				Total	Extraction Rate	Total Net	Kilograme	Calories
Commodity	Production	(-Export)	Stocks	Supply	Waste	Feed	Industrial	Total	Gross	(Percent)	Food	per Year	per Day
Pulses and oilseeds													
Vegetable oilseeds Brosd beans Field peas	15,956 2,993 3,105	- 1,371		14,585 2,993 3,105	1,852 420 406	540 776	7,032 60 186	9,424 480 1,368	5,161 2,513 1,737		5,161 2,513 1,737	8.9 4.3 3.0	89 41 28
Fruits and vegetables	3,,											55.0	35
Meat													
Beef and veal Buffalo Pork Mutton and lamb Goat Poultry	706 417 4,150 137 252 329	- 11 - 12h - 2	•	695 417 4,026 135 252 318					695 417 4,026 135 252 318		695 417 4,026 135 252 318	1.2 0.7 7.0 0.2 0.4 0.6	5 3 40 1 1 3
Total meat	5,991	- 148		5,843					5.843		5,843	10.1	53
Eggs	750	- 76		674		4			674		674	1.2	5
Fish (landed weight)	4,000	- 9		3,991					3,991		3,991	6.9	12
Fats and oils													
Vegetable oils Pork fat	1,373	- 146 - 9		1,227 1,091			100		1,127 1,091		1,127 1,091	2.0 1.9	118 42
Total fats and oils	2.473	- <u>155</u>		2,318			100		2,218		2,218	3.9	20
Total calories per day													1,674

a. Does not include alcoholic beverages. For methodology, see Appendix B.

-8-E-C-R-E-T

APPENDIX B

METHODOLOGY

The methodology used in constructing the food balances given in Appendix A is essentially the same as that used in constructing food balances in the published report on the 1953-54 food situation in the Sino-Soviet Bloc. It would be impracticable to reproduce that detailed methodology in this report. Only the methodology used in deriving new estimates and in revising previous estimates, therefore, is discussed below, and there is frequent reference to the 1953-54 report.

I. USSR.

A. 1938-39 Food Balance.

The food balance sheets for the USSR for the consumption year 1938-39 remain as published previously. 9/

B. 1953-54 Food Balance.

The food balance sheets for the USSR for the consumption year 1953-54 remain the same 10/ for all commodities except grains and sugar. The methodology pertaining to all other commodities is unchanged. 11/

1. Grains.

Figures for production of grains in 1953 are revised estimates.

Figures for trade in grains, as well as in all other products during 1953-54, are preliminary estimates obtained from scraps of information and reported trade agreements up to 30 March 1955, unless otherwise noted, and are subject to a margin of error of 10 percent or more.

It is believed that during the 1953-54 consumption year the USSR had to draw on reserve stocks of grains in order to meet current needs. The revised estimate of withdrawals of 2.4 million tons from reserves was based on the relation of the estimated total gross supply -- for both nonfood and food uses -- to estimated production.

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S-E-C-R-E-T

·S-E-C R E T

Estimates of seed and waste are as follows:

Crop	Acreage (Million Hectares)	Seeding Rate (Centners per Hectare)	Total Seed (Million Metric Tons)	Waste* (Million Metric Tons)	Total Seed and Waste (Million Metric Tons)
Wheat Rye Barley Oats Corn Other	49.3 22.7 8.5 16.5 4.3	1.4 1.4 1.2 1.6 0.5	6.9 3.2 1.0 2.6 0.2	1.1 0.6 0.2 0.4 0.1	8.0 3.8 1.2 3.0 0.3
grains	10.7	1.2	1.3	0.2	1.5

The estimated quantity of Fread grains fed to livestock has not been revised, but a slight adjustment has been made in the quantities of wheat and rye. Estimates of oats and barley fed to livestock have been revised downward in proportion to the downward revision in the estimates of their production. 12/ No revision has been made in the estimated quantity of "other grains" fed. The estimate of corn fed to livestock is a residual figure obtained by deducting estimated quantities of bread grains, barley, oats, and "other grains" fed to livestock in 1953-54 from the total requirements for grain feed of about 16 million tons, 13/ divided as follows:

		Annual Consumption			
Type of Livestock	Numbers** (Million Head)	Per Head (Kilograms)	Total (Million Metric Tons)		
Horses Hogs Cattle Sheep and goats Poultry	15.5 29.6 57.7 112.1 275.0	400 200 50 3 2	6.2 5.9 2.9 0.3 0.6		
Total			<u>15.9</u>		

^{*} Equals 3 percent of production.

** As of 1 January 1954.

Previous estimates of industrial uses of grains remain unchanged 14 for all commodities except corn. That estimate was increased to 1.3 million tons to bring the total up to the 3 million tons required for production of 198 million gallons of alcohol distilled from grain and 18 million hectoliters of beer.

No significant change was made in the previous estimate of the total gross availability of grain for direct consumption. The minor changes in distribution of the grains resulted in very insignificant changes in caloric intake.

2. Sugar.

The estimate of production of sugar in 1953 has been revised to 3 million tons. 15/ The estimated amount of sugar diverted into reserves was revised slightly upward on the basis of the higher production figure.

C. 1954-55 Food Balance.

1. Grains.

Figures for trade in grains, as well as in all other commodities, are preliminary estimates, based on scraps of information and reported trade agreements up to 30 March 1955, and are subject to a margin of error of at least 10 percent.

Estimates of seed and waste are as follows:

Crop	Acreage (Million Hectares)	Seeding Rate (Centners per Hectare)	Total Seed (Million Metric Tons)	Waste* (Million Metric Tons)	Total Seed and Waste (Million Metric Tons)
Wheat Rye Barley Oats Corn Other	61.0 23.0 8.0 15.5 14.0	1.4 1.4 1.2 1.6 0.5	8.5 3.2 1.0 2.4 0.7	1.1 0.6 0.2 0.4 0.1	9.6 3.8 1.2 2.8 0.8
grains	13.0	1.2	1.6	0.2	1.8

^{*} Equals 3 percent of production.

Because of the increased demand for seed created by the expansion of acreage under the "new lands" program, the estimated quantity of wheat fed to livestock has been held arbitrarily at 700,000 tons, and that of rye has been increased to 200,000 tons. The estimates of barley and oats fed to livestock have been increased, taking into consideration the fact that the percentage increase in the quantities of these two grains fed to livestock would certainly exceed the gross increase in production. The quantity of "other grains" used for feed is assumed to have been the same as in 1953-54. The estimate of the quantity of corn used for feed is a residual figure used to bring the total quantity of grains fed to livestock in 1954-55 up to 16.7 million tons, divided as follows:

		Annual Consumption			
Type of Livestock	Numbers* (Million Head)*	Per Head** (Kilograms)	Total (Million Metric Tons)		
Horses Hogs Cattle Sheep and goats Poultry	16.2 31.8 58.9 114.7 280.0	400 200 50 3 2	6.5 6.4 2.9 0.3 0.6		
Total			16.7		

The estimated quantities of wheat, rye, and barley used in the manufacture of alcohol and beer have each been arbitrarily increased 100,000 tons above the 1953-54 estimate to bring the total up to the 3.3 million tons required for production of 215 million gallons of alcohol distilled from grains and 20 million hectoliters of beer.

2. Sugar.

The estimate of production of sugar is a preliminary estimate based on Soviet sources. $\underline{17}/$

^{*} As of 1 January 1955.

^{**} Feeding rates are the same as in 1953-54. 16/

3. Potatoes.

The estimate of production of potatoes was derived by multiplying an acreage slightly greater than the acreage in 1953 18/by the yield per acre in 1953.

Waste is conventionally estimated at 10 percent of production. The estimate of seed was derived by multiplying 8.5 million hectares by 1,750 kilograms (kg) of seed per hectare. The estimated sum of seed and waste has been rounded to 21.6 million tons.

The use of potatoes for feed was estimated to be 1 percent greater than in 1953-54. This increase is in proportion to the increase in production.

The use of potatoes for industrial purposes includes the quantity of potatoes required to produce 60 million gallons of alcohol distilled from potatoes.

4. Meat.

The estimate of production of meat was based on estimated livestock numbers and slaughter weights. Details are given in source 19/.

5. Slaughter Fats.

The estimate of production of slaughter fats was computed from production of meat by the use of standard factors.

6. Vegetable Oils.

The estimate of production of vegetable oils, including edible and nonfood oils, was based on a planned increase of 11 percent 20/ over the production level of 1953-54. Industrial use was estimated at approximately 40 percent of the total supply.

7. Marine Oil.

Production of marine oil was assumed to be the same as in 1953-54.

8. Oilseeds.

The slight increase in production of oilseeds was based on a reported increase in acreage. 21/

This estimate of seed and waste includes the quantity of seed needed to sow the estimated 1955 acreage of oilseeds plus a waste factor of 3 percent of production.

The use of oilseeds for industrial purposes includes the quantity of oilseeds required to produce 1,380,000 tons of vegetable oils.

9. Fish.

The fish catch was based on a planned increase of 14 percent 22/ over production in 1953-54. Spoilage and waste were estimated at about 28 percent of the total available supply.

10. Milk.

Production of milk, 27.2 million tons, was estimated by multiplying the estimated number of cows -- 25.2 million as of 1 January 1955 -- by the estimated average yield per cow -- 1,080 liters. It was estimated that 8.2 million tons of milk were used for butter (20 kg of milk equaling 1 kg of butter). Whole milk was estimated at 19 million tons, of which 2 million tons are estimated to have been fed to livestock, and 17 million tons consumed as whole milk or its products -- cheese, ice cream, and the like.

II. European Satellites.

A. General.

The prewar food balance sheets prepared for the European Satellites are the same as those previously published. 23/ For the consumption year 1953-54, however, minor revisions in the balance sheets from those previously published 24/ were made in view of changes in population, production, and net trade. The revisions for 1953-54 and the methodology for the 1954-55 food balances are given below by country.

B. Albania.

1. 1953-54 Food Balance.

Revisions in estimates of production in Albania, based on more complete information, were made for sugar, meat, and slaughter fats.

A change in the utilization pattern of bread grains and corn for food resulted in increased estimates of stockpiling and animal consumption of grain.

2. 1954-55 Food Balance.

The estimate of production of sugar was calculated on a refined basis. Refined sugar is considered to equal 90 percent of raw sugar.

Data on trade are estimates based on fragmentary evidence from a number of sources.

Estimates of seed and waste are as follows:

Crop	Acreage (Thousand Hectares)	Seeding Rate (Kilograms per Hectare)	Total Seed (Thousand Metric Tons)	Waste* (Thousand Metric Tons)	Total Seed and Waste (Thousand Metric Tons)
Wheat Rye Barley Oats Corn Rice Other	108.0 4.0 11.0 13.0 98.0 2.9	180 180 155 155 40 160	19.4 0.7 1.7 2.0 3.9 0.5	3.4 0.1 0.3 0.3 3.6 0.2	22.8 0.8 2.0 2.3 7.5 0.7
grains Potatoes	24.0 1.0	180 1,500	4.3 1.5	0.2**	1.7

^{*} Equals 3 percent of production of grains.

** Equals 5 percent of production.

The estimate of industrial uses of grains is the same as that shown in the 1953-54 food balance.

C. Bulgaria.

1. 1953-54 Food Balance.

Estimates of production of meat, slaughter fats, and milk in Bulgaria have been revised on the basis of more complete information. Estimates of utilization were changed by application of the same methodology used in source 25/.

2. 1954-55 Food Balance.

The margin of error in estimates of production is 10 percent.

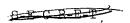
Estimates of trade were based on fragmentary evidence from a number of sources.

Estimates of seed and waste are as follows:

Crop	Acreage (Thousand Hectares)	Seeding Rate (Kilograms per Hectare)	Total Seed (Thousand Metric Tons)	Waste* (Thousand Metric Tons)	Total Seed and Waste (Thousand Metric Tons)
Wheat Rye Barley Oats Corn Rice Other	1,500.0 240.0 295.0 155.0 800.0 10.0	175 175 150 150 40 185	262.5 42.0 44.2 23.2 32.0 1.8	60.0 7.9 12.6 3.9 24.2 0.8	322 50 57 27 56 3
grains Potatoes	60.0 18.0	1,400	25.2	4.2 **	29

Other nonfood uses were calculated in the same way as in the report on the 1953-54 food balance. 26/

^{**} Equals 5 percent of production.



^{*} Equals 3 percent of production of grains.

D. Czechoslovakia.

1. 1953-54 Food Balance.

Seed and waste requirements in Czechoslovakia have been changed from the previous balance 27/ as a result of the change in the area seeded. Data on trade have been revised on the basis of more complete information. Only in the estimate of milk has there been a change from the previous food balance and in the methodology for obtaining estimates of industrial uses. A ratio of 23 kg of milk to 1 kg of butter was used.

2. 1954-55 Food Balance.

Data on trade were compiled from many different sources, of which all are available in CIA files. All estimates of trade are preliminary.

Estimates of seed and waste are as follows:

Crop	Acreage (Thousand Hectares)	Seeding Rate (Kilograms per Hectare)	Total Seed (Thousand Metric Tons)	Waste* (Thousand Metric Tons)	Total Seed and Waste (Thousand Metric Tons)
Wheat	780	180	140.4	103.6	244
Rye	645	180	116.1	85.7	202
Barley	620	150	93.0	84.3	177
Oats Other	600	150	90.0	80.6	171
grains	160	60	9.6	18.9	28
Potatoes	600	.2,100	1,260.0	765.0 **	2,025

Feed has been calculated as a residual figure, except for milk, which has been estimated at 13 percent of production. There has been no change in methodology for estimating industrial uses since the report for 1953-54.

^{*} A waste factor of 8 percent of production of grains was used in view of extremely unfavorable weather conditions during harvest time.

** Equals 15 percent of production.

E. East Germany.

1. 1953-54 Food Balance.

Estimates of production in East Germany have been revised on the basis of more complete information, as has the estimate of deliveries of wheat to the Soviet occupation forces, which has been estimated at 150,000 tons. The decline in stocks of sugar was estimated at 80,000 tons. Information reveals an increase in consumption of sugar so there were probably no additions to stocks in 1954. For the estimate of industrial uses of milk, the ratio of 22 kg of milk to 1 kg butter 28/ was changed to 28 to 1.

2. 1954-55 Food Balance.

All figures on production of grains and potatoes are as reported in source 29/, except as noted. Data on trade in grains are estimates based on fragmentary evidence from a large number of sources, except data on rice, which is a planned figure. 30/ This applies to trade in all commodities.

Estimates of exports of potatoes were based primarily on the Soviet occupation requirements for 400,000 Soviet troops of 200 kilograms per man per year. Allowing 20 percent for waste, this is about 100,000 tons. Added to this figure are 50,000 tons for normal frontier trade. Estimates of seed and waste are as follows:

Crop	Acreage (Thousand Hectares)	Seeding Rate (Kilograms per Hectare)	Total Seed (Thousand Metric Tons)	Waste* (Thousand Metric Tons)	Total Seed and Waste (Thousand Metric Tons)
Wheat Rye Barley Oats	420 1,220 320 590	180 170 150 140	75.6 207.4 48.0 82.6	67.8 146.8 16.0 31.3	143 354 64 114
Other grains Potatoes	150 800	170 1,800	25.5 1,440.0	8.1 1,755.0**	34 3,195

^{*} Equals 3 percent of production for each grain except wheat and rye, each of which equals 8 percent.

^{**} Equals 15 percent of production.

Three percent of production of wheat was used for feed. Twenty percent of production of rye was used for feed. A residual amount of production of barley and oats was used for feed. An estimate of 800 kg of potatoes per hog was used as the annual feeding rate. This figure, multiplied by 7 million hogs, yielded the estimated amount of potatoes used for feed. The prewar feeding rate was 1,000 to 1,200 kg per hog per year.

In the methodology for estimating the amount of grains and potatoes consumed by industrial uses there has been no change from that employed in the report for 1953-54.

The extraction rate of wheat and rye was raised from 76 to 86 percent; and of "other grains," from 76 to 80 percent. 31/

Production of sugar was estimated at 90 percent of its raw value, estimated at 685,000 tons.

Trade plans for 1955 called for the export of 250,000 tons. 32/ The 1954 plan, however, had called for the export of 227,000 tons, but actual exports amounted to 300,000 tons. It is probable, therefore, that exports in 1954-55 will equal those of 1953-54.

Imports of meat were planned at 60,000 tons, 33/ of which it was assumed that 20,000 tons were to meet Soviet occupation requirements.

It was assumed that 7,000 tons of meat were added to stocks to replace withdrawals during 1953-54.

No allowance for butter was made for Soviet occupation troops. The estimate of imports, 40,000 tons, represents a decrease of 4,000 tons below that for the previous year. 34/

The volume of trade in slaughter fats was assumed to be 86 percent of production in 1953-54. It was assumed that 20 percent of the total supply of slaughter fats was consumed by industry.

Plans for imports of vegetable oils specified 170,000 tons of soybeans and 30,000 tons of peanuts. 35/ The oil equivalent would be 60,000 tons.

Industrial uses were estimated to have consumed 20 percent of the total supply of vegetable oils. On the basis of available data on trade agreements, imports of fish were slightly above the level of 1953-54.

It is estimated that 10 percent of production of milk was used for feed. Industrial use was estimated on the basis of the quantity of milk required to produce 91,000 tons of butter at the ratio of 28 to 1.

F. Hungary.

1. 1953-54 Food Balance.

Revisions in estimates of production in Hungary from the previous balance 36/ were made for meat, slaughter fats, vegetable oils, and milk. Trade in grains was revised on the basis of more recent and complete information.

2. 1954-55 Food Balance.

Data on trade were compiled from many sources. All estimates of trade are preliminary.

In the methodology for deriving estimates of nonfood uses, there is no change from that employed in the report for 1953-54. 37/ Estimates of seed and waste are as follows:

Crop	Acreage (Thousand Hectares)	Seeding Rate (Kilograms par Hectare)	Total Seed (Thousand Metric Tons)	Waste* (Thousand Metric Tons)	Total Seed and Waste (Thousand Metric Tons)
Wheat Rye Barley Oats Corn Rice Other grains	1,357	175	238	73	311
	502	175	88	23	111
	428	150	65	23	88
	223	150	33	14	47
	1,227	40	49	90	139
	23	180	4	2	6

^{*} Equals 5 percent of production.

G. Poland.

1. 1953-54 Food Balance.

Estimates of production of sugar, potatoes, meat, fats and oils, and milk in Poland have been revised on the basis of more complete information.

Estimates of trade in grains and sugar have been revised on the basis of more recent information of trade agreements and actual movements of commodities.

The estimate of rye consumed as feed is a residual figure amounting to 17.5 percent of total production.

2. 1954-55 Food Balance.

Production figures, except for fish, have been revised on the basis of more complete information. The estimated production of fish is the same as that of 1953-54.

Trade in grains has been estimated on the basis of trade agreements and the actual movement of commodities, reported by many sources. Estimates of trade in other commodities are assumed to approximate those for 1953-54 because of the lack of data. All estimates of trade should be considered preliminary.

It is believed that consumption of wheat and rye in 1954-55 was approximately the same as in 1953-54. Imports increased considerably in 1954-55, although it is not known whether Poland absorbed all of these imports or whether a portion was destined for other Sino-Soviet Bloc countries. The assignment of 1 million tons of bread grains to stocks was arbitrary, in view of increased imports as well as increased production.

Estimates of seed and waste are as follows:

Crop	Acreage (Thousand Hectares)	Seeding Rate (Kilograms per Hectare)	Total Seed (Thousand Metric Tons)	Waste* (Thousand Metric Tons)	Total Seed and Waste (Thousand Metric Tons)
Wheat	1,400	180	252	97	349
Rye	4,500	170	765	297	1,062
Barley	900	150	135	55	190
0ats	1,730	150	260	105	365
Other	•				
grains	335	140	47	16	63

All other utilization of production was determined by the same methodology as that used for the 1953-54 food balance. A slightly higher proportion (20 percent) of production of rye was allocated for feed.

H. Rumania.

1. 1953-54 Food Balance.

Estimates of production of sugar, meat, milk, and slaughter fats in Rumania have been revised on the basis of more complete information. There was no change in methodology for estimating utilization.

2. 1954-55 Food Balance.

Estimates of trade were derived from data obtained from many sources giving the actual movement of trade for the last half of 1954 and trade agreements in effect during the first half of 1955.

Nonfood and food uses of various commodities were derived by the same methodology as that used to estimate the food balance.

Estimates of seed and waste are as follows:

^{*} Equals 5 percent of production.

Crop	Acreage (Thousand Hectares)	Seeding Rate (Kilograms per Hectare)	Total Seed (Thousand Metric Tons)	Waste* (Thousand Metric Tons)	Total Seed and Waste (Thousand Metric Tons)
Wheat Rye Barley Oats Corn Rice	2,450 150 500 400 3,400 20	180 180 155 155 50 185	441.0 27.0 77.5 62.0 170.0 3.7	62 4 11 9 87 1	503 31 88 71 257 5
Other grains	60	160	9.6	1	11

I. Communist China.

The food balance sheets prepared for Communist China estimating the prewar average and the 1953-54 consumption year have undergone minor revisions from those previously published, 38/ which were based on a constant population of 480 million persons. Those food balances, therefore, reflect primarily the changes in production from year to year, the different levels of net imports or exports, and any changes in utilization and extraction rates.

In 1954 the Chinese Communists published the preliminary results of their first census of the population, as of 30 June 1953. 39/ Those data made possible the recalculation of the estimated availability of food in terms of kilograms per capita per year and caloric intake per capita per day.

Production of food is estimated for the calendar year in which it is harvested or produced. Consumption is computed for the 12 months beginning 1 July of a given production (calendar) year through 30 June of the following year and is associated with the population of 1 January. Another adjustment was necessitated by the fact that only part of the Chinese population lives in areas for which data on production are available.

^{*} Equals 3 percent of production.

The total population reported by the Chinese Communists as of 1 June 1953 was 601,938,035, including 31,582,299 persons living in Formosa, the Inner Mongolian Autonomous Region, Sinkiang, Tibet, and Changtu, as well as overseas Chinese and students studying abroad. The net population as of 30 June 1953 in the Chinese Communist area for which data on production are available was 570,355,736.

Assuming that the annual increase in population averaged 1 percent, the net population as of 30 June 1954 was estimated at 576,059,293. The average of these two figures, 573,207,514, is the estimated population as of 1 January 1954, to be associated with the food balance for the 1953-54 consumption year. The population to be associated with the 1954-55 food balance is 578,939,589.

The estimates of population were carried back to 1 January 1932, on the assumption that the annual change in numbers averaged 1 percent.

The average of the years 1931 through 1937 is used as the prewar base for comparison of production of food in China and is used as the average of the years 1931-32 through 1937-38 prewar base for comparison of consumption. The average population associated with the average prewar consumption year is the average of the population as of 1 January for the years 1932 to 1938, which is estimated at 473,661,737.

These revisions in population, resulting in certain changes in kilograms of food available per capita per year and the daily per capita caloric intake, are presented in Tables 36, 37, and 38.*
Recent information also has made possible revisions in the estimated gross production of certain commodities.

1. 1931-38 Food Balance.

The revisions in production, together with the revised estimate of population, have resulted in an upward revision of the estimated caloric intake from 2,057 calories per capita per day to 2,071 calories per capita per day, an increase of 0.7 percent.

^{*} See Appendix A.

a. Grains.

Estimated production of wheat has been revised from 22,508,000 tons to 22,763,000 tons 40/; of corn, from 8,696,000 tons to 8,627,000 tons 41/; of millet, from 9,878,000 tons to 9,778,000 tons 42/; of kaoliang, from 11,066,000 tons to 11,365,000 tons 43/; of miscellaneous grains, from 1,096,000 tons to 1,435,000 tons. 44/ There were no changes in estimated imports or exports of grains. In view of the revised estimates of production, appropriate revisions have been made in the pertinent figures, according to the principles of methodology described in the previous report on food balances. 45/

A specific adjustment had to be made in estimates of seed and waste because of revisions in certain of the previous estimates of acreage. This adjustment results in changes in the estimates of seed allowances, to which 3 percent of the revised estimate of production has been added to account for waste.

Estimates of seed are as follows:

Commodity	Hectares (Thousands)	Seeding Rate (Kilograms per Hectare)	Seed Allowance (Thousand Metric Tons)
Wheat	21,454 46/	1.05	2,253
Corn	5,896 47/	70	413
Millet	7,735 48/	35	271
Kaoliang	7,987 49/	55	439
Broadbeans	2,805 50/	105	295

Seed and waste for miscellaneous grains are estimated at 159,000 tons. This is the same proportion that is allowed in source 51/ for the previous estimate of miscellaneous grains.

b. Potatoes.

Estimates of exports of sweet potatoes have been revised from 0 to 3,000 tons, 52/ and of seed and waste from 2,933,000 tons to 2,979,000 tons. 53/ Estimates of production of white potatoes

have been revised from 3,660,000 tons to 2,962,000 tons 54/; estimates of exports, from 35,000 tons to 21,000 tons 55/; and estimates of seed and waste, from 874,000 tons to 661,000 tons. 56/ Appropriate changes in utilization have been made according to the principles laid down in the footnotes for the previous balance. 56/

c. Sugar.

Cane sugar exports remain unchanged. 58/

d. Pulses and Oilseeds.

Vegetable oilseeds include soybeans, rapeseed, peanuts (unshelled basis), sesame, and cottonseed. The estimate of production of oilseeds has been revised downward from 18,199,000 tons to 17,708,000 tons. The revisions for all seeds except cottonseed are in conformity with the data given in source 59/.

Cottonseed was estimated to be in bales of 478 pounds in the ratio of 2 pounds of seed to 1 pound of lint, as reported by the US Department of Agriculture, 60/ and utilization was assumed to be in the same ratio as in the original prewar food balance.

The estimate of production of broadbeans has been revised downward from 3,358,000 tons to 3,018,000 tons. 61/ Estimates of exports of "other beans" have been revised from 85,000 tons to 86,000 tons. 62/ Minor adjustments have been made in utilization.

e. Fats and Oils.

Production of vegetable oils was assumed to be 20 percent of the revised estimate of oilseeds used industrially -- 1,601,000 tons. Exports of oilseeds were revised from 110,000 tons to 113,000 tons, including both China proper 63/ and Manchuria (average 1935-38). 64/ Industrial uses of oilseeds were estimated to consume 12.8 percent of the total supply, as in the previous food balance. 65/

2. 1953-54 Food Balance.

In revising the food balance sheets prepared for Communist China for the consumption year 1953-54, a revised population figure of

573.2 million has been used instead of the figure of 480 million used in computing the previously reported 1953-54 food balance. 66/ This increase in population of about 19.4 percent would indicate a corresponding decrease in the supply of food per capita in terms of kilograms per year as well as calories per day, other things being equal. Recently obtained information, however, has resulted in the upward revision of certain substantive estimates in the 1953-54 food balance, so that the estimated supply per capita in terms of kilograms per year has been reduced by only 11.4 percent and the estimated calories per day by 12.2 percent.

a. Grains.

There have been no revisions in previous estimates of production of wheat, miscellaneous grains, nonglutenous and glutenous rice in 1953. 67/ Revisions have been made in estimates of production of certain grains (in thousand tons), as follows: barley, from 6,646 to 7,338 68/; oats, from 814 to 1,039 69/; corn, from 9,892 to 10,331 70/; millet, from 9,142 to 9,494 71/; proso-millet, from 1,392 to 1,612 72/; and kaoliang, from 10,150 to 9,988. 73/

Estimates of exports (in thousand tons) have been revised as follows: wheat, from 100 to 11; oats, from 0 to 2; corn, from 100 to 46; millet, from 100 to 250; and kaoliang, from 100 to 250. The foregoing estimates and all other figures on the trade of Communist China are preliminary, based on incomplete data plus allowances for the movements of commodities indicated by trade agreements.

The estimates of seed and waste have been revised on the basis of revised estimates of production and acreage. Estimates have been made for grains, potatoes, broadbeans, and field peas as follows:

Commodity	Acreage (Thousand Hectares)	Seeding Rate (Kilograms per Hectare)	Seed Allowance (Thousand Metric Tons)	Waste* (Thousand Metric Tons)	Total Seed and Waste (Thousand Metric Tons)
Wheat Barley Oats Corn Rice	26,668 <u>7</u> 4/ 6,824 1,307 7,887	105 105 85 70	2,800 717 . 111 552	670 220 31 310	3,470 937 142 862
Nonglutenous Glutenous	18,879 1,120	75 70	1,416 78	1,370 76	2, 786 154
Millet Proso-millet Kaoliang Potatoes	8,444 1,837 8,029	35 40 55	295 73 442	285 48 300	580 121 742
Sweet (16 per White (26 per	cent of producent of prod	uction allowed	l for seed and wa for seed and wa	ste) ste)	4,588 614
Broadbeans Field peas	3,142 3,479	105 90	330 313	90 93	420 406

Estimates of winter crops other than wheat were based on 1953 acreages. Summer crops also were based on 1953 acreages. This estimate of planted acreage does not agree with estimates of acreage published elsewhere for 1954, which generally are estimates of harvested acreage. The estimates of acreage used here are preliminary and are subject to revision.

Changes in estimates of production have necessitated changes in the estimates for feed and industrial use. These changes are based on the percentage factors used in the prewar food balance, 75/taking into consideration certain differences in practices between China proper and Manchuria.

The estimated extraction rate for wheat flour has been raised from 85 percent to 90 percent. The estimated extraction rates for nonglutenous and glutenous rice have been raised to 82 percent and

^{*} Equals 3 percent of production.

78 percent, respectively, from the 74 percent and 70 percent used in estimating the prewar food balance. 76/ These revisions were made because in the fall of 1953 the Chinese Communists began enforcing the grain-processing standards that were set in 1950. 77/ Early in 1954, this policy of enforcement affected the availability of both wheat 78/ and rice.

b. Potatoes.

The estimate of production of sweet potatoes has been revised downward from 32,475,000 tons to 28,673,000 tons, 79/ and appropriate changes in utilization have been made, resulting in a decrease in estimated grams per capita per year from 39.9 to 29.5 and a decrease in estimated calories per capita per day from 106 to 78.

c. Sugar.

The estimate of production of came sugar has been increased from 383,000 tons to 390,000 tons. 80/ Estimates of exports have been increased from 75,000 tons to 92,000 tons. The revision in the estimate of the population resulted in a revision of the estimate of calories per day from 10 to 9.

d. Pulses and Oilseeds.

Estimated production of vegetable oilseeds has been reduced from 17,570,000 tons to 16,175,000 tons. The revised estimate includes data for China proper 81/ for various seeds (in thousand tons), as follows: soybeans, 5,400; rapeseed, 2,750; unshelled peanuts, 2,100; and sesame, 675. To these figures have been added estimates for Manchuria (in thousand tons), as follows: soybeans, 3,650; and peanuts, 150. An estimate of 1,450,000 tons of cottonseed was based on an estimate of lint cotton 82/, applying the ratio of 1 ton of lint to 2 tons of seed.

Exports of vegetable oilseeds were estimated (in thousand tons), as follows: soybeans, 1,159; peanuts, 406; sesame, 81; and rapeseed, 24. These are estimates based on many scraps of information on shipments and commitments. An estimate of wastage, computed at 3 percent of production, was added to the estimated

requirements for seed, which were obtained by applying certain factors 83/ to the following acreages: rapeseed, 4,757,600 hectares 84/; and cotton, 4,122,300 hectares.* The 1954 estimate of cotton acreage is based on the estimated 1943 acreage of 3,787,300 hectares 85/ plus 335,000 hectares planned for expansion in 1954.86/ The following acreages also were estimated to have been seeded for 1954: soybeans, 8,341,700 hectares; peanuts, 1,320,900; and sesame, 1,271,700.

The oilseed allowance for feed for livestock was estimated at 6 percent of the production of soybeans -- 543,000 tons. The quantity of oilseeds consumed directly as human food, estimated at 5,477,000 tons, includes soybeans, peanuts, and sesame. The estimated proportion of the crop consumed directly was based on source 87/ for soybeans and peanuts and on source 88/ for sesame.

The estimate of 6,626,000 tons of oilseeds used industrially is a residual figure derived by subtracting exports and other utilization from the total supply. \blacksquare

On the basis of recent information, 89/ the estimate of production of broadbeans has been revised downward to 2,993,000 tons and the estimate of production of field peas revised upward to 3,105,000 tons.

e. Meat.

The estimates of production of meat for the different classes of livestock have been revised since the completion of the food balance prepared in the spring of 1954. The factors and methodology used in estimating production of meat from livestock numbers are given in source 90/. The basis for the estimate of livestock numbers is given in source 91/.

Estimated production of poultry meat, based on poultry numbers, was revised upward with the revision of livestock estimates. Because of the comparable importance of poultry and hogs to the household, it was assumed that poultry increased at the same rate as hogs. With an approximate increase of 14 percent in poultry, production of eggs was correspondingly increased.

^{*} This is the seeded acreage and does not correspond to the harvested acreage for 1954, because of the destruction of considerable cotton by the floods of that year.

f. Fish.

The estimate of the fish catch in Communist China is preliminary and subject to revision. Before World War II, official landings totaled 1.7 million tons, and unofficial landings were estimated at 1.5 million tons. The largest part of the unofficial estimate stemmed from estimates of the catch from pond culture, which was largely unreported. 92/ There is no information available on total official landings in 1953. Official landings were reported by the Chinese Communists for Kwangtung in 1953. 93/ The total catch was estimated on the assumption that the Kwangtung catch in 1953 would bear approximately the same relation to the total catch that it did in 1952. The total catch for 1952 is from source 94/ and the Kwangtung catch for 1952 is from source 95/. It is assumed that unofficial landings have increased from the 1952 estimate by the same percentage that official landings were estimated to have increased.

g. Fats and Oils.

Total production of vegetable oils was calculated from estimated production of five oilseeds. The methodology employed is similar to that used in the 1953-54 food balance. 96/

Туре	Supply for Oil* (Thou- sand Metric Tons)	Extraction Rate (Percent)	Oil Production (Thousand Metric Tons)
Soybeans			
China Manchuria	1,501 532	10.4	156 64
Peanuts			
China Manchuria	441 10	25.0 40.0	110
Rapesced Sesame Cottonseed	2,501 469 1,172	28.0 37.0 10.0	700 174 117
Total	6,626		1,325

^{*} Each of the figures is a residual derived from production less export (if any) and other utilization.

Information is lacking on which to base a definitive estimate of industrial uses of vegetable oils. A considerable amount of vegetable oils was used for lighting purposes before World War II. With the growth of industry, it is probable that there has been some increase in the industrial use of vegetable oils. The shortage of vegetable oils and the increased supplies of petroleum, however, make it probable that there has been some decrease in the use of oils for lighting. It was estimated that, in 1953-54, industrial uses consumed approximately 50 percent of the amount thus consumed in 1931-34. 97/
The estimated increase in production of pork fat was 16.3 percent over the 925,000 tons previously reported, 28/ in conformity with the increase in production of pork. The figure was rounded to 1.1 million tons.

3. 1954-55 Food Balance.

a. Grains.

Production of wheat in 1954 was estimated at 24,825,000 tons, 29/ taking into account the losses occasioned by the 1954 floods. The estimates of acreage and production of barley and oats for China proper were carried over at the level of 1953, with allowance made for flood losses. Estimates of spring barley and oats grown in Manchuria were increased from the estimated levels of production in 1953 in proportion to the total increase of 3 million tons in production of grains in Manchuria.* 100/

Production of corn, millet, and kaoliang in China proper was estimated as equivalent to the 1953 acreage, minus the acreage under flood in 1954 multiplied by the average yield of 1953. To this figure was added 1953 production in Manchuria plus a proportionate share of the estimated 1954 increase of 3 million tons in Manchuria. There is no reported production of proso-millet in Manchuria. Production of proso-millet in China proper was estimated in the same

^{*} Production of grains in Manchuria in 1953 was estimated at 18,709,000 tons. 101/ Favorable weather conditions are estimated to have raised the 1954 grain crop to 21,800,000 tons, an increase of 3 million tons. This increase was distributed among the various grain crops in proportion to the harvested acreages of 1953.

manner as production of millet. The estimate of production of rice in China proper was based on the 1953 acreage minus the estimated flooded acreage multiplied by the 1953 average yield raised 6 percent, as indicated by source 102/. To this quantity was added the estimated Manchurian production of rice, obtained in the same manner as the estimated Manchurian production of millet. Estimates of foreign trade in grains, as well as in all other products for 1954-55, are preliminary approximations based on scraps of information obtained during the first three quarters of the year ending 30 June 1955. At this time it can be assumed only that the exports of certain commodities in 1954-55 were approximately the same as in 1953-54. The quantities involved are so small that they would have had only a minor effect on the caloric intake per capita per day.

At the present time the only estimate that can be made is that the seed requirements may be approximately the same as those indicated in the tabulation on page 86, above, giving the seed requirements for the acreage to be harvested in 1954. In each, 3 percent of estimated production has been added to the seed requirements to allow for waste.

Estimates of grains used for livestock feed and of industrial uses for all grains, including rice, were assumed to bear the same percentage relation to total production as they did in $1953-54 \cdot 103$

Estimates of extraction rates for flour and grain meals are the same as in 1953-54. The extraction rate for nonglutenous rice has been raised from 82 percent to 84 percent, and for glutenous rice, from 78 percent to 80 percent. The latter revision was made because the austerity measures announced in the fall of 1953 104/ began to show their effects in the spring of 1954.

b. Potatoes.

The estimate of production of sweet potatoes in China proper was based on the 1953 acreage minus the estimated flood acreage in 1954 multiplied by the average yield of 1953.

The estimate of production of white potatoes in Manchuria has been carried over at the level of 1953.

Seed and waste for sweet potatoes were estimated at 16 percent of production and, for white potatoes, at 26 percent of production, as in 1953-54.

Potatoes used for feed were estimated at 20 percent of production for sweet potatoes and 7 percent of production for white potatoes, as in 1953-54. Sweet potatoes used industrially were estimated at 5 percent of production for sweet potatoes and 6 percent of production for white potatoes, as in 1953-54.

c. Sugar.

Production of sugar was estimated on a regional basis. The estimate of production in Kwangtung was increased in proportion to the announced acreage expansion. Acreages estimated for 1953 and 1954 are from sources 105/ and 106/, respectively. The estimate of production in Szechuan was increased according to the plan announced for production of sugar in the Tokiang River area. 107/ The estimate of production in the northeast was increased by the same percentage that total crop production increased in the northwest. The estimate of production in the rest of China was increased in proportion to announced production in 1953-54 in Fukien.* Total increases are equivalent to 50,000 tons.

d. Pulses and Oilseeds.

Production of soybeans in China proper was estimated at 4,674,000 tons, obtained by multiplying the 1953 acreage less the estimated flood acreage in 1954 by the 1953 average yield. To this quantity was added 4,320,000 tons for Manchuria, estimated as the proportionate share of the estimated 3-million-ton grain increase in the northeast in 1954.

Production of peanuts in China proper was estimated at 2.1 million tons and at 150,000 tons in Manchuria, as in 1953. Rapeseed was estimated at 2,887,000 tons. 110/ Production of sesame seed was estimated at 519,000 tons, based on the 1953 acreage minus the estimated 1954 flooded acreage multiplied by the 1953 average yield.

^{*} See source 108/ for 1953 and source 109/ for 1954.

Production of cottonseed was estimated at 1,306,000 tons, twice the figure for production of lint cotton in 1954, computed as follows: the 1954 acreage seeded to cotton was estimated at 4,122,300 hectares, from which 706,600 hectares (based on source 111/) were deducted for flood damage. The remaining figure, 3,415,700 hectares, was multiplied by the estimated yield of lint cotton per hectare (191.2 kg), 112/ resulting in an estimate of 653,000 tons of lint cotton. Total production of oilseeds was estimated at 15,956,000 tons.

The estimate of trade was based on what little is known of trade in the July-December period in 1954, on estimates of the relative flow of exports in the first half of 1954 in relation to the second half, and on the use of the trade data estimated for 1953-54.

With the exception of rapeseed, the 1955 oilseed crops were not planted at the time these estimates were made. The estimates of the latest known year were therefore used -- in this case 1954, which indicates a seed requirement of 1,347,000 tons. Waste was computed at 3 percent of all production of oilseeds, except cottonseed for which 5 percent was used. The resulting total of 505,000 tons indicates seed and waste at 1,852,000 tons.

Feed was estimated at 6 percent of production of soybeans, as in the 1953-54 food balance.

The quantity of oilseeds available for industrial use (oil extraction) is a residual figure left after deducting other nonoil uses from the total supply. Nonoil use also includes a quantity of oilseeds consumed directly.

Oilseeds consumed directly are soybeans, peanuts, and sessme. The proportion of soybeans and peanuts consumed directly was based on source 113/. The amount of sesame consumed directly has been held at the same ratio used in source 114/.

Data on broadbeans and field peas have been carried over from estimates of the 1953-54 food balance.

e. <u>Meat</u>.

The methodology used in estimating production of meat from livestock numbers is given in source 115. The basis for an estimate of livestock numbers is given in source 116. The methodology for estimating livestock numbers is as follows:

For numbers of cattle and buffalo, it was estimated that the annual rate of increase would be one-third as great as the average annual increase between 1949-53. This estimate was based on three considerations: (1) the average annual increase of cattle and buffalo was based on a series of years of expanding crop production; (2) in 1953, production of crops leveled out, and in 1954 it suffered a decline because of adverse weather conditions; and (3) cattle numbers estimated for 1953 were in excess of the estimated prewar numbers. It was assumed that the number of hogs and poultry in 1954-55 would be approximately the same as in 1953-54. It is believed that the decrease in crop production in 1954 and the actual death losses caused by the 1954 floods will act to prevent a net increase. In the case of sheep and goats, it was concluded that one-third the rate of increase between 1952 and 1953 was the best estimate of increase for 1954-55. Although the rate of increase in sheep and goat numbers has been extremely rapid over the past 5 years, it tended to slow down in the latter part of the period, and this trend probably will continue.

f. Eggs.

The estimate of production of eggs has been carried over at the level of 1953-54.

g. Fish.

The estimate of the fish catch for Communist China is preliminary and subject to revision. To date, it is not known what the Chinese Communists claim as the size of official landings. Expected official landings were given by the Chinese Communists for Kwangtung in 1954. 117/ Later reports of the spring catch indicate that the plan for 1954 may be fulfilled. 118/ An estimate of the total catch was derived by assuming that the Kwangtung catch for 1954 bore the same relation to the total catch as it did in 1952. The unofficial landings were assumed to have increased from the 1953 estimate of unofficial landings by the same percentage that official landings were estimated to have increased.

h. Fats and Oils.

Estimated production of vegetable oils -- derived by employing the methodology previously described 119/ -- is as follows:

Туре	Supply for	Extraction	Oil Production
	Oil (Thou-	Rate	(Thousand
	sand Metric Tons)	(Percent)	Metric Tons)
Soybeans			
China	1,412	10	141
Manchuria	791	12	95
Peanuts			
China	526	25	132
Manchuria	10	40	4
Rapeseed	2,613	28	732
Sesame	374	37	138
Cottonseed	1,306	10	131
Total	7,032		1,373

The estimate of vegetable oils consumed for industrial uses is the same as in 1953-54. Production of pork fat was estimated to be the same as in 1953-54 because the number of hogs probably remained the same.

APPENDIX C

GAPS IN INTELLIGENCE

The three major gaps in intelligence on food balances in the Sino-Soviet Bloc concern state food reserves, trade, and animal feed.

One of the most serious gaps is the lack of information on annual additions to, or releases from, the state food reserves, and on total quantities of food stored. These statistics are significant in determining the total supply of a commodity available for consumption and in evaluating the intentions and capabilities of the Sino-Soviet Bloc.

Information is also lacking on trade in foodstuffs within the Sino-Soviet Bloc. Very little information on trade is available except for East German-Soviet trade and even this information is incomplete on East German reparations and occupation deliveries of foodstuffs to the USSR. Intra-Bloc trade in foodstuffs has a more significant effect on availabilities of food in the European Satellites than in the USSR or in Communist China. A more concentrated effort in compiling intra-Bloc trade data and the opening of new sources of information will narrow the range of error.

The third important gap in information concerns the allocation of cereals and potatoes for animal feed. Most of the feed allocations have been based on prewar factors. The validity of these factors and the amount of variation between crops need the support of current information. Studies on livestock feeding which will be done at a later date may help to fill this gap.

Although other gaps in information exist in the food balances. the three gaps cited above are the most significant in influencing estimates of the food available for annual consumption. Other gaps in information pertain to factors or quantities which are held relatively stable from year to year and therefore have little or no effect on trends in consumption in terms of a national average.

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APPENDIX D

SOURCE REFERENCES

Evaluations, following the classification entry and designated "Eval.," have the following significance:

Information Source of Information 1 - Confirmed by other sources Doc. - Documentary 2 - Probably true A - Completely reliable B - Usually reliable 3 - Possibly true 4 - Doubtful C - Fairly reliable 5 - Probably false D - Not usually reliable 6 - Cannot be judged E - Not reliable F - Cannot be judged

"Documentary" refers to original documents of foreign governments and organizations; copies or translations of such documents by a staff officer; or information extracted from such documents by a staff officer, all of which may carry the field evaluation "Documentary."

Evaluations not otherwise designated are those appearing on the cited document; those designated "RR" are by the author of this report. No "RR" evaluation is given when the author agrees with the evaluation on the cited document

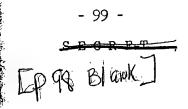
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